



Document Object Model (DOM) Level 2 HTML Specification

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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 documents. The Document Object Model Level 2 HTML builds on the Document Object Model Level 2 Core [DOM Level 2 Core] and on the Document Object Model Level 1 HTML [DOM Level 1].

The DOM Level 2 HTML is made of a set of specific interfaces to manipulate the structure and contents of an HTML document.

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This document has been produced as part of the W3C DOM Activity. The authors of this document are the DOM Working Group members. Different modules of the Document Object Model have different editors.

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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.117] documents [HTML4.0]. 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.117] .
- to provide *convenience* [p.117] 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.117] 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 and frameset DTDs for HTML 4.0 are assumed. Interoperability between implementations is only guaranteed for elements and attributes that are specified in the HTML 4.0 DTDs.

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

- An `HTMLDocument` [p.12] interface, derived from the core `Document` interface. `HTMLDocument` specifies the operations and queries that can be made on a HTML document.
- An `HTMLElement` [p.16] 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.16] 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 order to fully support this module, an implementation must also support the "Core" feature defined `ref="DOMCore"/>`. 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 4.0 documents, and not for XHTML documents. Use of the HTML DOM with XHTML documents may result in incorrect processing; see Appendix C11 in [XHTML10] for more information.

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 4.0 Recommendation, some of them cannot. Similarly, not all attributes listed below have counterparts in the HTML 4.0 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.117] implementations.

1.3. Miscellaneous Object Definitions

Interface *HTMLDOMImplementation* (introduced in **DOM Level 2**)

The `HTMLDOMImplementation` interface extends the `DOMImplementation` interface with a method for creating an HTML document instance.

IDL Definition

```
// Introduced in DOM Level 2:
interface HTMLDOMImplementation : DOMImplementation {
    HTMLDocument    createHTMLDocument(in DOMString title);
};
```

Methods

`createHTMLDocument`

Creates an `HTMLDocument` [p.12] object with the minimal tree made of the following elements: `HTML`, `HEAD`, `TITLE`, and `BODY`.

Parameters

`title` of type `DOMString`

The title of the document to be set as the content of the `TITLE` element, through a child `Text` node.

Return Value

`HTMLDocument` [p.12] A new `HTMLDocument` object.

No Exceptions

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* 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. 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.

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

1.4. 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.117] 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.

IDL Definition

```
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;

    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 complete URI [RFC2396] of the document.

anchors of type `HTMLCollection` [p.11], `readonly`

A collection of all the anchor (A) elements in a document with a value for the name attribute. *Note.* For reasons of backwards compatibility, the returned set of anchors only contains those anchors created with the name attribute, not those created with the id attribute.

applets of type `HTMLCollection` [p.11], `readonly`

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

body of type `HTMLElement` [p.16]

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`

The cookies associated with this document. If there are none, the value is an empty string. Otherwise, the value is a string: a semicolon-delimited list of "name=value" pairs for all the cookies associated with the page. For example, name=value; expires=date.

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.11], `readonly`

A collection of all the forms of a document.

images of type `HTMLCollection` [p.11], `readonly`

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

links of type `HTMLCollection` [p.11], `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 [RFC2396] 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

getElementsByTagName

Returns the (possibly empty) collection of elements whose name value is given by elementName.

Parameters

elementName of type DOMString

The name attribute value for an element.

Return Value

NodeList The matching elements.

No Exceptions

open

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. The following methods may be deprecated at some point in the future in favor of a more general-purpose mechanism.

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

No Parameters

No Return Value

No Exceptions

write

Write a string of text to a document stream opened by open(). The text is parsed into the document's structure model.

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(). The text is parsed into the document's structure model.

Parameters

text of type DOMString

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

No Return Value

No Exceptions

1.5. HTML Elements

1.5.1. 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 is independent of the case of the attribute in the source document. The data type of the property is determined by the type of the attribute as determined by the HTML 4.0 transitional and frameset DTDs. The attributes have the semantics (including case-sensitivity) given in the HTML 4.0 specification.

The attributes are exposed as properties for compatibility with *DOM Level 0* [p.117]. This usage is deprecated because it can not be generalized to all possible attribute names, as is required both for XML and potentially for future versions of HTML. We recommend the use of generic methods on the core `Element` interface for setting, getting and removing attributes.

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

The return value of an attribute that has a data type that is a value list is always capitalized, 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" then it 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.

1.5.2. Naming Exceptions

To avoid namespace conflicts, an attribute with the same name as a keyword in one of our chosen *binding languages* [p.117] is prefixed. For HTML, the prefix used is "html". For example, the `for` attribute of the `LABEL` element collides with loop construct naming conventions and is renamed `htmlFor`.

1.5.3. Exposing Element Type Names (`tagName`)

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`.

1.5.4. The HTML`Element` 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:

- HEAD
- 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 4.0.

`dir` of type `DOMString`

Specifies the base direction of directionally neutral text and the directionality of tables. See the `dir` attribute definition in HTML 4.0.

`id` of type `DOMString`

The element's identifier. See the `id` attribute definition in HTML 4.0.

`lang` of type `DOMString`

Language code defined in RFC 1766. See the `lang` attribute definition in HTML 4.0.

`title` of type `DOMString`

The element's advisory title. See the `title` attribute definition in HTML 4.0.

1.5.5. Object definitions

Interface *HTMLHtmlElement*

Root of an HTML document. See the HTML element definition in HTML 4.0.

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 4.0. This attribute is deprecated in HTML 4.0.

Interface *HTMLHeadElement*

Document head information. See the HEAD element definition in HTML 4.0.

IDL Definition

```
interface HTMLHeadElement : HTMLElement {
    attribute DOMString    profile;
};
```

Attributes

profile of type DOMString

URI designating a metadata profile. See the profile attribute definition in HTML 4.0.

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 4.0 (see also the LinkStyle interface in the StyleSheet module [DOM Level 2 Style Sheets and CSS]).

IDL Definition

```
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;
};
```

Attributes

charset of type DOMString

The character encoding of the resource being linked to. See the charset attribute definition in HTML 4.0.

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 of the linked resource. See the href attribute definition in HTML 4.0.

hreflang of type DOMString

Language code of the linked resource. See the hreflang attribute definition in HTML 4.0.

media of type DOMString

Designed for use with one or more target media. See the media attribute definition in HTML 4.0.

rel of type DOMString

Forward link type. See the rel attribute definition in HTML 4.0.

rev of type DOMString

Reverse link type. See the rev attribute definition in HTML 4.0.

target of type DOMString

Frame to render the resource in. See the target attribute definition in HTML 4.0.

type of type DOMString

Advisory content type. See the type attribute definition in HTML 4.0.

Interface *HTMLTitleElement*

The document title. See the TITLE element definition in HTML 4.0.

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 4.0.

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 4.0.
- httpEquiv of type DOMString
HTTP response header name. See the http-equiv attribute definition in HTML 4.0.
- name of type DOMString
Meta information name. See the name attribute definition in HTML 4.0.
- scheme of type DOMString
Select form of content. See the scheme attribute definition in HTML 4.0.

Interface *HTMLBaseElement*

Document base URI. See the BASE element definition in HTML 4.0.

IDL Definition

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

Attributes

- href of type DOMString
The base URI. See the href attribute definition in HTML 4.0.
- target of type DOMString
The default target frame. See the target attribute definition in HTML 4.0.

Interface *HTMLIsIndexElement*

This element is used for single-line text input. See the ISINDEX element definition in HTML 4.0.
This element is deprecated in HTML 4.0.

IDL Definition

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

Attributes

- form of type HTMLFormElement [p.21] , 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 4.0. This attribute is deprecated in HTML 4.0.

Interface *HTMLStyleElement*

Style information. See the STYLE element definition in HTML 4.0, 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 4.0.

type of type DOMString

The content type of the style sheet language. See the type attribute definition in HTML 4.0.

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 4.0.

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 4.0. This attribute is deprecated in HTML 4.0.

background of type DOMString

URI of the background texture tile image. See the background attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

bgColor of type DOMString

Document background color. See the bgcolor attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

link of type DOMString

Color of links that are not active and unvisited. See the link attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

text of type DOMString

Document text color. See the text attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

vLink of type DOMString

Color of links that have been visited by the user. See the vlink attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

Interface *HTMLFormElement*

The FORM element encompasses behavior similar to a collection and an element. It provides direct access to the contained input elements as well as the attributes of the form element. See the FORM element definition in HTML 4.0.

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 4.0.

action of type DOMString

Server-side form handler. See the action attribute definition in HTML 4.0.

elements of type HTMLCollection [p.11], readonly

Returns a collection of all 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 4.0.

length of type long, readonly

The number of form controls in the form.

method of type DOMString

HTTP method used to submit form. See the method attribute definition in HTML 4.0.

name of type DOMString

Names the form.

target of type DOMString

Frame to render the resource in. See the target attribute definition in HTML 4.0.

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 4.0.

IDL Definition

```
interface HTMLSelectElement : HTMLElement {
  readonly attribute DOMString      type;
          attribute long            selectedIndex;
          attribute DOMString      value;
  readonly attribute long          length;
  readonly attribute HTMLFormElement form;
  readonly attribute HTMLCollection 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 4.0.

form of type HTMLFormElement [p.21] , readonly

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

length of type long, readonly

The number of options in this SELECT.

multiple of type boolean

If true, multiple OPTION elements may be selected in this SELECT. See the multiple attribute definition in HTML 4.0.

name of type DOMString

Form control or object name when submitted with a form. See the name attribute definition in HTML 4.0.

options of type HTMLCollection [p.11] , readonly

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 4.0.

`tabIndex` of type `long`

Index that represents the element's position in the tabbing order. See the `tabindex` attribute definition in HTML 4.0.

`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.

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.

Parameters

`element` of type `HTMLElement` [p.16]

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 4.0.

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 4.0.

label of type DOMString

Assigns a label to this option group. See the label attribute definition in HTML 4.0.

Interface *HTMLOptionElement*

A selectable choice. See the OPTION element definition in HTML 4.0.

IDL Definition

```
interface HTMLOptionElement : HTMLElement {
    readonly attribute HTMLFormElement form;
    attribute boolean        defaultSelected;
    readonly attribute DOMString text;
    readonly attribute long   index;
    attribute boolean        disabled;
    attribute DOMString      label;
    attribute boolean        selected;
    attribute DOMString      value;
};
```

Attributes

defaultSelected of type boolean

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. Changing defaultSelected, however, resets the state of the form control. See the selected attribute definition in HTML 4.0.

disabled of type boolean

The control is unavailable in this context. See the disabled attribute definition in HTML 4.0.

form of type HTMLFormElement [p.21], 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

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 4.0.

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 4.0.

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 4.0.

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;
    attribute DOMString      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 4.0.

`accessKey` of type `DOMString`

A single character access key to give access to the form control. See the `accesskey` attribute definition in HTML 4.0.

`align` of type `DOMString`

Aligns this object (vertically or horizontally) with respect to its surrounding text. See the `align` attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

`alt` of type `DOMString`

Alternate text for user agents not rendering the normal content of this element. See the `alt` attribute definition in HTML 4.0.

`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 value attribute of the element.

`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. Changes to this attribute, however, resets the state of the form control. See the `checked` attribute definition in HTML 4.0.

`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. Changing this attribute, however, resets the contents of the form control. See the value attribute definition in HTML 4.0.

`disabled` of type `boolean`

The control is unavailable in this context. See the `disabled` attribute definition in HTML 4.0.

`form` of type `HTMLFormElement` [p.21] , `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 4.0.

`name` of type `DOMString`

Form control or object name when submitted with a form. See the `name` attribute definition in HTML 4.0.

`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 4.0.

`size` of type `DOMString`

Size information. The precise meaning is specific to each type of field. See the `size` attribute definition in HTML 4.0.

`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 4.0.

tabIndex of type long

Index that represents the element's position in the tabbing order. See the tabIndex attribute definition in HTML 4.0.

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

The type of control created. See the type attribute definition in HTML 4.0.

useMap of type DOMString

Use client-side image map. See the usemap attribute definition in HTML 4.0.

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 4.0.

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 4.0.

IDL Definition

```

interface HTMLTextAreaElement : HTMLElement {
    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 4.0.

cols of type `long`

Width of control (in characters). See the `cols` attribute definition in HTML 4.0.

defaultValue of type `DOMString`

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. Changing this attribute, however, resets the contents of the form control.

disabled of type `boolean`

The control is unavailable in this context. See the `disabled` attribute definition in HTML 4.0.

form of type `HTMLFormElement` [p.21], `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 4.0.

readOnly of type `boolean`

This control is read-only. See the `readonly` attribute definition in HTML 4.0.

rows of type `long`

Number of text rows. See the `rows` attribute definition in HTML 4.0.

tabIndex of type `long`

Index that represents the element's position in the tabbing order. See the `tabindex` attribute definition in HTML 4.0.

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 4.0.

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 4.0.

`disabled` of type `boolean`

The control is unavailable in this context. See the disabled attribute definition in HTML 4.0.

`form` of type `HTMLFormElement` [p.21], `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 4.0.

`tabIndex` of type `long`

Index that represents the element's position in the tabbing order. See the tabIndex attribute definition in HTML 4.0.

type of type DOMString, readonly

The type of button. See the type attribute definition in HTML 4.0.

value of type DOMString

The current form control value. See the value attribute definition in HTML 4.0.

Interface *HTMLLabelElement*

Form field label text. See the LABEL element definition in HTML 4.0.

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 4.0.

form of type HTMLFormElement [p.21], 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 4.0.

Interface *HTMLFieldSetElement*

Organizes form controls into logical groups. See the FIELDSET element definition in HTML 4.0.

IDL Definition

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

Attributes

form of type HTMLFormElement [p.21], 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 4.0.

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 4.0.

`align` of type `DOMString`

Text alignment relative to `FIELDSET`. See the `align` attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

`form` of type `HTMLFormElement` [p.21], readonly

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

Interface *HTMLUListElement*

Unordered list. See the `UL` element definition in HTML 4.0.

IDL Definition

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

Attributes

`compact` of type `boolean`

Reduce spacing between list items. See the `compact` attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

`type` of type `DOMString`

Bullet style. See the `type` attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

Interface *HTMLLOListElement*

Ordered list. See the `OL` element definition in HTML 4.0.

IDL Definition

```
interface HTMLLOListElement : 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 4.0. This attribute is deprecated in HTML 4.0.

`start` of type `long`

Starting sequence number. See the `start` attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

`type` of type `DOMString`

Numbering style. See the `type` attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

Interface *HTMLDListElement*

Definition list. See the DL element definition in HTML 4.0.

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 4.0. This attribute is deprecated in HTML 4.0.

Interface *HTMLDirectoryElement*

Directory list. See the DIR element definition in HTML 4.0. This element is deprecated in HTML 4.0.

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 4.0. This attribute is deprecated in HTML 4.0.

Interface *HTMLMenuElement*

Menu list. See the MENU element definition in HTML 4.0. This element is deprecated in HTML 4.0.

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 4.0. This attribute is deprecated in HTML 4.0.

Interface *HTMLLIElement*

List item. See the LI element definition in HTML 4.0.

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 4.0. This attribute is deprecated in HTML 4.0.

value of type long

Reset sequence number when used in OL. See the value attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

Interface *HTMLDivElement*

Generic block container. See the DIV element definition in HTML 4.0.

IDL Definition

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

Attributes

align of type DOMString

Horizontal text alignment. See the align attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

Interface *HTMLParagraphElement*

Paragraphs. See the P element definition in HTML 4.0.

IDL Definition

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

Attributes

align of type DOMString

Horizontal text alignment. See the align attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

Interface *HTMLHeadingElement*

For the H1 to H6 elements. See the H1 element definition in HTML 4.0.

IDL Definition

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

Attributes

`align` of type `DOMString`

Horizontal text alignment. See the `align` attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

Interface *HTMLQuoteElement*

For the `Q` and `BLOCKQUOTE` elements. See the `Q` element definition in HTML 4.0.

IDL Definition

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

Attributes

`cite` of type `DOMString`

A URI designating a source document or message. See the `cite` attribute definition in HTML 4.0.

Interface *HTMLPreElement*

Preformatted text. See the `PRE` element definition in HTML 4.0.

IDL Definition

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

Attributes

`width` of type `long`

Fixed width for content. See the `width` attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

Interface *HTMLBRElement*

Force a line break. See the `BR` element definition in HTML 4.0.

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 4.0. This attribute is deprecated in HTML 4.0.

Interface *HTMLBaseFontElement*

Base font. See the BASEFONT element definition in HTML 4.0. This element is deprecated in HTML 4.0.

IDL Definition

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

Attributes

color of type DOMString
Font color. See the color attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

face of type DOMString
Font face identifier. See the face attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

size of type DOMString
Font size. See the size attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

Interface *HTMLFontElement*

Local change to font. See the FONT element definition in HTML 4.0. This element is deprecated in HTML 4.0.

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 4.0. This attribute is deprecated in HTML 4.0.

face of type DOMString
Font face identifier. See the face attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

size of type DOMString
Font size. See the size attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

Interface *HTMLHRElement*

Create a horizontal rule. See the HR element definition in HTML 4.0.

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 4.0. This attribute is deprecated in HTML 4.0.

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 4.0. This attribute is deprecated in HTML 4.0.

size of type DOMString

The height of the rule. See the size attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

width of type DOMString

The width of the rule. See the width attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

Interface *HTMLModElement*

Notice of modification to part of a document. See the INS and DEL element definitions in HTML 4.0.

IDL Definition

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

Attributes

cite of type DOMString

A URI designating a document that describes the reason for the change. See the cite attribute definition in HTML 4.0.

dateTime of type DOMString

The date and time of the change. See the datetime attribute definition in HTML 4.0.

Interface *HTMLAnchorElement*

The anchor element. See the A element definition in HTML 4.0.

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 4.0.

`charset` of type `DOMString`

The character encoding of the linked resource. See the `charset` attribute definition in HTML 4.0.

`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 4.0.

`href` of type `DOMString`

The URI of the linked resource. See the `href` attribute definition in HTML 4.0.

`hreflang` of type `DOMString`

Language code of the linked resource. See the `hreflang` attribute definition in HTML 4.0.

`name` of type `DOMString`

Anchor name. See the `name` attribute definition in HTML 4.0.

`rel` of type `DOMString`

Forward link type. See the `rel` attribute definition in HTML 4.0.

`rev` of type `DOMString`

Reverse link type. See the `rev` attribute definition in HTML 4.0.

`shape` of type `DOMString`

The shape of the active area. The coordinates are given by `coords`. See the `shape` attribute definition in HTML 4.0.

`tabIndex` of type `long`

Index that represents the element's position in the tabbing order. See the `tabindex` attribute definition in HTML 4.0.

`target` of type `DOMString`

Frame to render the resource in. See the `target` attribute definition in HTML 4.0.

`type` of type `DOMString`

Advisory content type. See the `type` attribute definition in HTML 4.0.

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 4.0.

IDL Definition

```
interface HTMLImageElement : HTMLElement {
    attribute DOMString    lowSrc;
    attribute DOMString    name;
    attribute DOMString    align;
    attribute DOMString    alt;
    attribute DOMString    border;
    attribute DOMString    height;
    attribute DOMString    hspace;
    attribute boolean      isMap;
    attribute DOMString    longDesc;
    attribute DOMString    src;
    attribute DOMString    useMap;
    attribute DOMString    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 4.0. This attribute is deprecated in HTML 4.0.

alt of type DOMString

Alternate text for user agents not rendering the normal content of this element. See the alt attribute definition in HTML 4.0.

border of type DOMString

Width of border around image. See the border attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

height of type DOMString

Override height. See the height attribute definition in HTML 4.0.

hspace of type DOMString

Horizontal space to the left and right of this image. See the hspace attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

isMap of type boolean

Use server-side image map. See the ismap attribute definition in HTML 4.0.

longDesc of type DOMString

URI designating a long description of this image or frame. See the longdesc attribute definition in HTML 4.0.

lowSrc of type DOMString

URI designating the source of this image, for low-resolution output.

name of type DOMString

The name of the element (for backwards compatibility).

src of type DOMString

URI designating the source of this image. See the src attribute definition in HTML 4.0.

useMap of type DOMString

Use client-side image map. See the usemap attribute definition in HTML 4.0.

vspace of type DOMString

Vertical space above and below this image. See the vspace attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

width of type DOMString

Override width. See the width attribute definition in HTML 4.0.

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 4.0.

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 DOMString hspace;
    attribute DOMString name;
    attribute DOMString standby;
    attribute long tabIndex;
    attribute DOMString type;
    attribute DOMString useMap;
    attribute DOMString 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 4.0. This attribute is deprecated in HTML 4.0.

archive of type DOMString

Space-separated list of archives. See the archive attribute definition in HTML 4.0.

border of type DOMString

Width of border around the object. See the border attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

`code` of type `DOMString`

Applet class file. See the `code` attribute for `HTMLAppletElement`.

`codeBase` of type `DOMString`

Base URI for `classid`, `data`, and `archive` attributes. See the `codebase` attribute definition in HTML 4.0.

`codeType` of type `DOMString`

Content type for data downloaded via `classid` attribute. See the `codetype` attribute definition in HTML 4.0.

`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 specifying the location of the object's data. See the `data` attribute definition in HTML 4.0.

`declare` of type `boolean`

Declare (for future reference), but do not instantiate, this object. See the `declare` attribute definition in HTML 4.0.

`form` of type `HTMLFormElement` [p.21] , `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 4.0.

`hspace` of type `DOMString`

Horizontal space to the left and right of this image, applet, or object. See the `hspace` attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

`name` of type `DOMString`

Form control or object name when submitted with a form. See the `name` attribute definition in HTML 4.0.

`standby` of type `DOMString`

Message to render while loading the object. See the `standby` attribute definition in HTML 4.0.

`tabIndex` of type `long`

Index that represents the element's position in the tabbing order. See the `tabindex` attribute definition in HTML 4.0.

`type` of type `DOMString`

Content type for data downloaded via `data` attribute. See the `type` attribute definition in HTML 4.0.

`useMap` of type `DOMString`

Use client-side image map. See the `usemap` attribute definition in HTML 4.0.

`vspace` of type `DOMString`

Vertical space above and below this image, applet, or object. See the `vspace` attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

`width` of type `DOMString`

Override width. See the `width` attribute definition in HTML 4.0.

Interface *HTMLParamElement*

Parameters fed to the OBJECT element. See the PARAM element definition in HTML 4.0.

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 4.0.

type of type DOMString

Content type for the value attribute when valueType has the value "ref". See the type attribute definition in HTML 4.0.

value of type DOMString

The value of a run-time parameter. See the value attribute definition in HTML 4.0.

valueType of type DOMString

Information about the meaning of the value attribute value. See the valueType attribute definition in HTML 4.0.

Interface *HTMLAppletElement*

An embedded Java applet. See the APPLETT element definition in HTML 4.0. This element is deprecated in HTML 4.0.

IDL Definition

```
interface HTMLAppletElement : HTMLElement {
    attribute DOMString      align;
    attribute DOMString      alt;
    attribute DOMString      archive;
    attribute DOMString      code;
    attribute DOMString      codeBase;
    attribute DOMString      height;
    attribute DOMString      hspace;
    attribute DOMString      name;
    attribute DOMString      object;
    attribute DOMString      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 4.0. This attribute is deprecated in HTML 4.0.

alt of type DOMString

Alternate text for user agents not rendering the normal content of this element. See the alt attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

archive of type DOMString

Comma-separated archive list. See the archive attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

code of type DOMString

Applet class file. See the code attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

codeBase of type DOMString

Optional base URI for applet. See the codebase attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

height of type DOMString

Override height. See the height attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

hspace of type DOMString

Horizontal space to the left and right of this image, applet, or object. See the hspace attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

name of type DOMString

The name of the applet. See the name attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

object of type DOMString

Serialized applet file. See the object attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

vspace of type DOMString

Vertical space above and below this image, applet, or object. See the vspace attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

width of type DOMString

Override width. See the width attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

Interface *HTMLMapElement*

Client-side image map. See the MAP element definition in HTML 4.0.

IDL Definition

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

Attributes

areas of type HTMLCollection [p.11], 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 4.0.

Interface *HTMLAreaElement*

Client-side image map area definition. See the AREA element definition in HTML 4.0.

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 4.0.

`alt` of type `DOMString`

Alternate text for user agents not rendering the normal content of this element. See the `alt` attribute definition in HTML 4.0.

`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 4.0.

`href` of type `DOMString`

The URI of the linked resource. See the `href` attribute definition in HTML 4.0.

`noHref` of type `boolean`

Specifies that this area is inactive, i.e., has no associated action. See the `nohref` attribute definition in HTML 4.0.

`shape` of type `DOMString`

The shape of the active area. The coordinates are given by `coords`. See the `shape` attribute definition in HTML 4.0.

`tabIndex` of type `long`

Index that represents the element's position in the tabbing order. See the `tabindex` attribute definition in HTML 4.0.

`target` of type `DOMString`

Frame to render the resource in. See the `target` attribute definition in HTML 4.0.

Interface *HTMLScriptElement*

Script statements. See the `SCRIPT` element definition in HTML 4.0.

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 4.0.

defer of type boolean

Indicates that the user agent can defer processing of the script. See the defer attribute definition in HTML 4.0.

event of type DOMString

Reserved for future use.

htmlFor of type DOMString

Reserved for future use.

src of type DOMString

URI designating an external script. See the src attribute definition in HTML 4.0.

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 4.0.

Interface *HTMLTableElement*

The create* and delete* methods on the table allow authors to construct and modify tables. HTML 4.0 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 4.0.

IDL Definition

```
interface HTMLTableElement : HTMLElement {
    attribute HTMLTableCaptionElement  caption;
    attribute HTMLTableSectionElement  tHead;
    attribute HTMLTableSectionElement  tFoot;
    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();
    HTMLElement                        insertRow(in long index)
                                       raises(DOMException);
    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 4.0. This attribute is deprecated in HTML 4.0.
- `bgColor` of type `DOMString`
Cell background color. See the `bgcolor` attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.
- `border` of type `DOMString`
The width of the border around the table. See the `border` attribute definition in HTML 4.0.
- `caption` of type `HTMLTableCaptionElement` [p.47]
Returns the table's `CAPTION`, or void if none exists.
- `cellPadding` of type `DOMString`
Specifies the horizontal and vertical space between cell content and cell borders. See the `cellpadding` attribute definition in HTML 4.0.
- `cellSpacing` of type `DOMString`
Specifies the horizontal and vertical separation between cells. See the `cellspacing` attribute definition in HTML 4.0.
- `frame` of type `DOMString`
Specifies which external table borders to render. See the `frame` attribute definition in HTML 4.0.
- `rows` of type `HTMLCollection` [p.11] , `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 4.0.
- `summary` of type `DOMString`
Description about the purpose or structure of a table. See the `summary` attribute definition in HTML 4.0.
- `tBodies` of type `HTMLCollection` [p.11] , `readonly`
Returns a collection of the defined table bodies.
- `tFoot` of type `HTMLTableSectionElement` [p.48]
Returns the table's `TFOOT`, or null if none exists.
- `tHead` of type `HTMLTableSectionElement` [p.48]
Returns the table's `THEAD`, or null if none exists.
- `width` of type `DOMString`
Specifies the desired table width. See the `width` attribute definition in HTML 4.0.

Methods

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

Return Value

`HTMLElement` [p.16] A `CAPTION` element.

No Parameters

No Exceptions

`createTFoot`

Create a table footer row or return an existing one.

Return Value

`HTMLElement` [p.16] A footer element (TFooter).

No Parameters

No Exceptions

`createTHead`

Create a table header row or return an existing one.

Return Value

`HTMLElement` [p.16] 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`

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 all the rows contained inside the table, regardless of section parentage.

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 negative.

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

Insert a new empty row in the table. The new row is inserted immediately before and in the same section as the current `indexth` row in the table. If `index` is 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 4.0 Recommendation.

Parameters

`index` of type `long`

The row number where to insert a new row. This index starts from 0 and is relative to all the rows contained inside the table, regardless of section parentage.

Return Value

`HTMLElement` [p.16] 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 negative.

Interface *HTMLTableCaptionElement*

Table caption See the `CAPTION` element definition in HTML 4.0.

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 4.0.

This attribute is deprecated in HTML 4.0.

Interface *HTMLTableColElement*

Regroups the `COL` and `COLGROUP` elements. See the `COL` element definition in HTML 4.0.

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 4.0.
- `ch` of type `DOMString`
Alignment character for cells in a column. See the `char` attribute definition in HTML 4.0.
- `chOff` of type `DOMString`
Offset of alignment character. See the `charoff` attribute definition in HTML 4.0.
- `span` of type `long`
Indicates the number of columns in a group or affected by a grouping. See the `span` attribute definition in HTML 4.0.
- `vAlign` of type `DOMString`
Vertical alignment of cell data in column. See the `valign` attribute definition in HTML 4.0.
- `width` of type `DOMString`
Default column width. See the `width` attribute definition in HTML 4.0.

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;
    HTMLElement              insertRow(in long index)
                               raises(DOMException);
    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 4.0.
- `chOff` of type `DOMString`
Offset of alignment character. See the `charoff` attribute definition in HTML 4.0.
- `rows` of type `HTMLCollection` [p.11], `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`

Delete a row from this section.

Parameters

`index` of type `long`

The index of the row to be deleted. 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 negative.

No Return Value

`insertRow`

Insert a row into this section. The new row is inserted immediately before the current `index`th row in this section. If `index` is 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

`HTMLInputElement` [p.16] The newly created row.

Exceptions

`DOMException` `INDEX_SIZE_ERR`: Raised if the specified index is greater than the number of rows of if the index is negative.

Interface *HTMLTableRowElement*

A row in a table. See the TR element definition in HTML 4.0.

IDL Definition

```
interface HTMLTableRowElement : HTMLElement {
  readonly attribute long          rowIndex;
  readonly attribute long          sectionRowIndex;
  readonly attribute HTMLCollection cells;
  attribute DOMString             align;
  attribute DOMString             bgColor;
  attribute DOMString             ch;
  attribute DOMString             chOff;
  attribute DOMString             vAlign;
  HTMLElement                     insertCell(in long index)
```

```

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 4.0.

bgColor of type `DOMString`
Background color for rows. See the `bgcolor` attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

cells of type `HTMLCollection` [p.11], `readonly`
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 4.0.

chOff of type `DOMString`
Offset of alignment character. See the `charoff` attribute definition in HTML 4.0.

rowIndex of type `long`, `readonly`
The index of this row, relative to the entire table, starting from 0. This is in document tree order and not display order. The `rowIndex` does not take into account sections (`THEAD`, `TFOOT`, or `TBODY`) within the table.

sectionRowIndex of type `long`, `readonly`
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 4.0.

Methods

deleteCell
Delete a cell from the current row.

Parameters
`index` of type `long`
The index of the cell to delete, starting from 0.

Exceptions

<code>DOMException</code>	<code>INDEX_SIZE_ERR</code> : Raised if the specified <code>index</code> is greater than or equal to the number of cells or if the index is negative.
---------------------------	---

No Return Value

insertCell
Insert an empty TD cell into this row. If `index` is 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

HTML`Element` [p.16] The newly created cell.

Exceptions

DOM`Exception` `INDEX_SIZE_ERR`: Raised if the specified index is greater than the number of cells or if the index is negative.

Interface *HTMLTableCellElement*

The object used to represent the TH and TD elements. See the TD element definition in HTML 4.0.

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 4.0.

`align` of type `DOMString`

Horizontal alignment of data in cell. See the `align` attribute definition in HTML 4.0.

`axis` of type `DOMString`

Names group of related headers. See the `axis` attribute definition in HTML 4.0.

`bgColor` of type `DOMString`

Cell background color. See the `bgcolor` attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

`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 4.0.

`chOff` of type `DOMString`

Offset of alignment character. See the `charoff` attribute definition in HTML 4.0.

`colSpan` of type `long`

Number of columns spanned by cell. See the `colspan` attribute definition in HTML 4.0.

`headers` of type `DOMString`

List of `id` attribute values for header cells. See the `headers` attribute definition in HTML 4.0.

`height` of type `DOMString`

Cell height. See the `height` attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

`noWrap` of type `boolean`

Suppress word wrapping. See the `nowrap` attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

`rowSpan` of type `long`

Number of rows spanned by cell. See the `rowspan` attribute definition in HTML 4.0.

`scope` of type `DOMString`

Scope covered by header cells. See the `scope` attribute definition in HTML 4.0.

`vAlign` of type `DOMString`

Vertical alignment of data in cell. See the `valign` attribute definition in HTML 4.0.

`width` of type `DOMString`

Cell width. See the `width` attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

Interface *HTMLFrameSetElement*

Create a grid of frames. See the `FRAMESET` element definition in HTML 4.0.

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 4.0.

`rows` of type `DOMString`

The number of rows of frames in the frameset. See the `rows` attribute definition in HTML 4.0.

Interface *HTMLFrameElement*

Create a frame. See the `FRAME` element definition in HTML 4.0.

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 4.0.

`longDesc` of type `DOMString`
 URI designating a long description of this image or frame. See the `longdesc` attribute definition in HTML 4.0.

`marginHeight` of type `DOMString`
 Frame margin height, in pixels. See the `marginheight` attribute definition in HTML 4.0.

`marginWidth` of type `DOMString`
 Frame margin width, in pixels. See the `marginwidth` attribute definition in HTML 4.0.

`name` of type `DOMString`
 The frame name (object of the `target` attribute). See the `name` attribute definition in HTML 4.0.

`noResize` of type `boolean`
 When true, forbid user from resizing frame. See the `noresize` attribute definition in HTML 4.0.

`scrolling` of type `DOMString`
 Specify whether or not the frame should have scrollbars. See the `scrolling` attribute definition in HTML 4.0.

`src` of type `DOMString`
 A URI designating the initial frame contents. See the `src` attribute definition in HTML 4.0.

Interface *HTMLIFrameElement*

Inline subwindows. See the `IFRAME` element definition in HTML 4.0.

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 4.0. This attribute is deprecated in HTML 4.0.
- `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 4.0.
- `height` of type `DOMString`
Frame height. See the `height` attribute definition in HTML 4.0.
- `longDesc` of type `DOMString`
URI designating a long description of this image or frame. See the `longdesc` attribute definition in HTML 4.0.
- `marginHeight` of type `DOMString`
Frame margin height, in pixels. See the `marginheight` attribute definition in HTML 4.0.
- `marginWidth` of type `DOMString`
Frame margin width, in pixels. See the `marginwidth` attribute definition in HTML 4.0.
- `name` of type `DOMString`
The frame name (object of the `target` attribute). See the `name` attribute definition in HTML 4.0.
- `scrolling` of type `DOMString`
Specify whether or not the frame should have scrollbars. See the `scrolling` attribute definition in HTML 4.0.
- `src` of type `DOMString`
A URI designating the initial frame contents. See the `src` attribute definition in HTML 4.0.
- `width` of type `DOMString`
Frame width. See the `width` attribute definition in HTML 4.0.

Appendix A: Changes

Editors

Philippe Le Hégaré, W3C

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

OMG IDL

The DOM Level 2 specifications are now using Corba 2.3.1 instead of Corba 2.2.

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

Interface `HTMLDocument` [p.12]

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

Interface `HTMLFrameElement` [p.52]

the attribute `contentDocument` was added.

Interface `HTMLIFrameElement` [p.53]

the attribute `contentDocument` was added.

Interface `HTMLInputElement` [p.25]

the attribute `type` is no longer read only.

Interface `HTMLObjectElement` [p.39]

the attribute `contentDocument` was added.

Interface `HTMLObjectElement` [p.39]

the attribute `contentDocument` was added.

A.1.2: New Interfaces

Interface `HTMLDOMImplementation` [p.10]

The `HTMLDOMImplementation` [p.10] interface was added to the HTML module.

Appendix B: IDL Definitions

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

Unfortunately the OMG IDL in this appendix is not conformant because of problems in the validator that was used to validate Level 1. The `readOnly` attribute on the `HTMLInputElement` [p.25] and `HTMLTextAreaElement` [p.27] interfaces, as well as the `object` attribute on the `HTMLAppletElement` [p.41] interface, are not conformant with OMG IDL 2.2. The `valueType` attribute on the `HTMLParamElement` [p.40] interface is not conformant with OMG IDL 2.3.1, which hadn't been released when DOM Level 1 was published.

The IDL files are also available as:

<http://www.w3.org/TR/2000/WD-DOM-Level-2-HTML-20001113/idl.zip>

html.idl:

```
// File: html.idl

#ifndef _HTML_IDL_
#define _HTML_IDL_

#include "dom.idl"

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

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

    interface HTMLDocument;
    interface HTMLInputElement;
    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 HTMLDOMImplementation : DOMImplementation {
        HTMLDocument    createHTMLDocument(in DOMString title);
    };

    interface HTMLDocument : Document {
```

html.idl:

```
        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;

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;
};
```

html.idl:

```
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;
    readonly attribute long length;
    readonly attribute HTMLFormElement form;
    readonly attribute HTMLCollection 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();
};
```

html.idl:

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

interface HTMLOptionElement : HTMLElement {
    readonly attribute HTMLFormElement form;
    attribute boolean        defaultSelected;
    readonly attribute DOMString text;
    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 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;
    attribute DOMString      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 {
    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();
};
```

html.idl:

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

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

interface HTMLDLListElement : 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;
};
```

html.idl:

```
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;
    attribute DOMString    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;
```

html.idl:

```
        attribute DOMString      shape;
        attribute long           tabIndex;
        attribute DOMString      target;
        attribute DOMString      type;
    void      blur();
    void      focus();
};

interface HTMLImageElement : HTMLElement {
    attribute DOMString      lowSrc;
    attribute DOMString      name;
    attribute DOMString      align;
    attribute DOMString      alt;
    attribute DOMString      border;
    attribute DOMString      height;
    attribute DOMString      hspace;
    attribute boolean        isMap;
    attribute DOMString      longDesc;
    attribute DOMString      src;
    attribute DOMString      useMap;
    attribute DOMString      vspace;
    attribute DOMString      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 DOMString      hspace;
    attribute DOMString      name;
    attribute DOMString      standby;
    attribute long           tabIndex;
    attribute DOMString      type;
    attribute DOMString      useMap;
    attribute DOMString      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;
```

html.idl:

```
        attribute DOMString        archive;
        attribute DOMString        code;
        attribute DOMString        codeBase;
        attribute DOMString        height;
        attribute DOMString        hspace;
        attribute DOMString        name;
        attribute DOMString        object;
        attribute DOMString        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 {
    attribute HTMLTableCaptionElement  caption;
    attribute HTMLTableSectionElement  tHead;
    attribute HTMLTableSectionElement  tFoot;
    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();
};
```


html.idl:

```
void                deleteCaption();
HTMLInputElement   insertRow(in long index)
                    raises(dom::DOMException);
void                deleteRow(in long index)
                    raises(dom::DOMException);
};

interface HTMLTableCaptionElement : HTMLInputElement {
    attribute DOMString    align;
};

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

interface HTMLTableSectionElement : HTMLInputElement {
    attribute DOMString    align;
    attribute DOMString    ch;
    attribute DOMString    chOff;
    attribute DOMString    vAlign;
    readonly attribute HTMLCollection rows;
    HTMLInputElement      insertRow(in long index)
                            raises(dom::DOMException);
    void                  deleteRow(in long index)
                            raises(dom::DOMException);
};

interface HTMLTableRowElement : HTMLInputElement {
    readonly attribute long    rowIndex;
    readonly attribute long    sectionRowIndex;
    readonly attribute HTMLCollection cells;
    attribute DOMString    align;
    attribute DOMString    bgColor;
    attribute DOMString    ch;
    attribute DOMString    chOff;
    attribute DOMString    vAlign;
    HTMLInputElement      insertCell(in long index)
                            raises(dom::DOMException);
    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;
```

html.idl:

```
        attribute DOMString      height;
        attribute boolean        noWrap;
        attribute long           rowspan;
        attribute DOMString      scope;
        attribute DOMString      vAlign;
        attribute DOMString      width;
};

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

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;
};

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 // _HTML_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/2000/WD-DOM-Level-2-HTML-20001113/java-binding.zip>

org/w3c/dom/html/HTMLDOMImplementation.java:

```
package org.w3c.dom.html;

import org.w3c.dom.DOMImplementation;

public interface HTMLDOMImplementation extends DOMImplementation {
    public HTMLDocument createHTMLDocument(String title);
}

```

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

```
package org.w3c.dom.html;

import org.w3c.dom.Node;

public interface HTMLCollection {
    public int getLength();

    public Node item(int index);

    public Node namedItem(String name);
}

```

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

```
package org.w3c.dom.html;

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

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);

public void open();

public void close();

public void write(String text);
public void writeln(String text);

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

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

```
package org.w3c.dom.html;

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/html/HTMLHtmlElement.java:

```
package org.w3c.dom.html;

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

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

```
package org.w3c.dom.html;

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

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

```
package org.w3c.dom.html;

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/html/HTMLTitleElement.java:

```
package org.w3c.dom.html;

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

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

```
package org.w3c.dom.html;

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/html/HTMLBaseElement.java:

```
package org.w3c.dom.html;

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

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

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

```
package org.w3c.dom.html;

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

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

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

```
package org.w3c.dom.html;

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/html/HTMLBodyElement.java:

```
package org.w3c.dom.html;

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/html/HTMLFormElement.java:

```
package org.w3c.dom.html;

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/html/HTMLSelectElement.java:

```
package org.w3c.dom.html;

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 HTMLFormElement getForm();

    public HTMLCollection 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/html/HTMLOptGroupElement.java:

```
package org.w3c.dom.html;

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

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

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

```
package org.w3c.dom.html;

public interface HTMLInputElement 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/html/HTMLInputElement.java:

```
package org.w3c.dom.html;

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

    public boolean getDefaultChecked();
    public void setDefaultChecked(boolean defaultChecked);

    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 String getSize();
    public void setSize(String 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/html/HTMLTextAreaElement.java:

```
package org.w3c.dom.html;

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/html/HTMLButtonElement.java:

```
package org.w3c.dom.html;

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/html/HTMLLabelElement.java:

```
package org.w3c.dom.html;

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/html/HTMLFieldSetElement.java:

```
package org.w3c.dom.html;

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

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

```
package org.w3c.dom.html;

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/html/HTMLULListElement.java:

```
package org.w3c.dom.html;

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

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

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

```
package org.w3c.dom.html;

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/html/HTMLDListElement.java:

```
package org.w3c.dom.html;

public interface HTMLDListElement extends HTMLElement {
    public boolean getCompact();
    public void setCompact(boolean compact);
}
```

org/w3c/dom/html/HTMLDirectoryElement.java:

```
package org.w3c.dom.html;

public interface HTMLDirectoryElement extends HTMLElement {
    public boolean getCompact();
    public void setCompact(boolean compact);
}
```

org/w3c/dom/html/HTMLMenuElement.java:

```
package org.w3c.dom.html;

public interface HTMLMenuElement extends HTMLElement {
    public boolean getCompact();
    public void setCompact(boolean compact);
}
```

org/w3c/dom/html/HTMLLIElement.java:

```
package org.w3c.dom.html;

public interface HTMLLIElement extends HTMLElement {
    public String getType();
    public void setType(String type);

    public int getValue();
    public void setValue(int value);
}
```

org/w3c/dom/html/HTMLDivElement.java:

```
package org.w3c.dom.html;

public interface HTMLDivElement extends HTMLElement {
    public String getAlign();
    public void setAlign(String align);
}
```

org/w3c/dom/html/HTMLParagraphElement.java:

```
package org.w3c.dom.html;

public interface HTMLParagraphElement extends HTMLElement {
    public String getAlign();
    public void setAlign(String align);
}
```

org/w3c/dom/html/HTMLHeadingElement.java:

```
package org.w3c.dom.html;

public interface HTMLHeadingElement extends HTMLElement {
    public String getAlign();
    public void setAlign(String align);
}
```

org/w3c/dom/html/HTMLQuoteElement.java:

```
package org.w3c.dom.html;

public interface HTMLQuoteElement extends HTMLElement {
    public String getCite();
    public void setCite(String cite);
}
```

org/w3c/dom/html/HTMLPreElement.java:

```
package org.w3c.dom.html;

public interface HTMLPreElement extends HTMLElement {
    public int getWidth();
    public void setWidth(int width);
}
```

org/w3c/dom/html/HTMLBRElement.java:

```
package org.w3c.dom.html;

public interface HTMLBRElement extends HTMLElement {
    public String getClear();
    public void setClear(String clear);
}
```

org/w3c/dom/html/HTMLBaseFontElement.java:

```
package org.w3c.dom.html;

public interface HTMLBaseFontElement 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/html/HTMLFontElement.java:

```
package org.w3c.dom.html;

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/html/HTMLHRElement.java:

```
package org.w3c.dom.html;

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/html/HTMLModElement.java:

```
package org.w3c.dom.html;

public interface HTMLModElement extends HTMLElement {
    public String getCite();
    public void setCite(String cite);

    public String getDateTime();
    public void setDateTime(String dateTime);
}
```


org/w3c/dom/html/HTMLAnchorElement.java:

```
package org.w3c.dom.html;

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/html/HTMLImageElement.java:

```
package org.w3c.dom.html;

public interface HTMLImageElement extends HTMLElement {
    public String getLowSrc();
    public void setLowSrc(String lowSrc);

    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 String getHeight();
public void setHeight(String height);

public String getHspace();
public void setHspace(String 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 String getVspace();
public void setVspace(String vspace);

public String getWidth();
public void setWidth(String width);

}
```

org/w3c/dom/html/HTMLObjectElement.java:

```
package org.w3c.dom.html;

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 String getHspace();
public void setHspace(String 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 String getVspace();
public void setVspace(String vspace);

public String getWidth();
public void setWidth(String width);

public Document getContentDocument();
}
```

org/w3c/dom/html/HTMLParamElement.java:

```
package org.w3c.dom.html;

public interface HTMLParamElement extends HTMLElement {
    public String getName();
    public void setName(String name);

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

org/w3c/dom/html/HTMLAppletElement.java:

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

public String getValueType();
public void setValueType(String valueType);
}
```

org/w3c/dom/html/HTMLAppletElement.java:

```
package org.w3c.dom.html;

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 String getHspace();
    public void setHspace(String hspace);

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

    public String getObject();
    public void setObject(String object);

    public String getVspace();
    public void setVspace(String vspace);

    public String getWidth();
    public void setWidth(String width);
}
```

org/w3c/dom/html/HTMLMapElement.java:

```
package org.w3c.dom.html;

public interface HTMLMapElement extends HTMLElement {
    public HTMLCollection getAreas();
}
```

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

org/w3c/dom/html/HTMLAreaElement.java:

```
package org.w3c.dom.html;

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/html/HTMLScriptElement.java:

```
package org.w3c.dom.html;

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/html/HTMLTableElement.java:

```
package org.w3c.dom.html;

import org.w3c.dom.DOMException;

public interface HTMLTableElement extends HTMLElement {
    public HTMLTableCaptionElement getCaption();
    public void setCaption(HTMLTableCaptionElement caption);

    public HTMLTableSectionElement getTHead();
    public void setTHead(HTMLTableSectionElement tHead);

    public HTMLTableSectionElement getTFoot();
    public void setTFoot(HTMLTableSectionElement tFoot);

    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();
```

org/w3c/dom/html/HTMLTableCaptionElement.java:

```
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/html/HTMLTableCaptionElement.java:

```
package org.w3c.dom.html;

public interface HTMLTableCaptionElement extends HTMLElement {
    public String getAlign();
    public void setAlign(String align);
}

}
```

org/w3c/dom/html/HTMLTableColElement.java:

```
package org.w3c.dom.html;

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/html/HTMLTableSectionElement.java:

```
package org.w3c.dom.html;

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/html/HTMLTableRowElement.java:

```
package org.w3c.dom.html;

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/html/HTMLTableCellElement.java:

```
package org.w3c.dom.html;

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/html/HTMLFrameSetElement.java:

```
package org.w3c.dom.html;

public interface HTMLFrameSetElement extends HTMLElement {
    public String getCols();
    public void setCols(String cols);

    public String getRows();
    public void setRows(String rows);
}
```

org/w3c/dom/html/HTMLFrameElement.java:

```
package org.w3c.dom.html;

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/html/HTMLIFrameElement.java:

```
package org.w3c.dom.html;

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/html/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]).

Object **HTMLDOMImplementation**

HTMLDOMImplementation has the all the properties and methods of the **DOMImplementation** object as well as the properties and methods defined below.

The **HTMLDOMImplementation** object has the following methods:

createHTMLDocument(title)

This method returns a **HTMLDocument** object.

The **title** parameter is of type **String**.

Object **HTMLCollection**

The **HTMLCollection** object has the following properties:

length

This read-only property is of type **Number**.

The **HTMLCollection** object has the following methods:

item(index)

This method returns a **Node** object.

The **index** parameter is of type **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** method with that index.

namedItem(name)

This method returns a **Node** object.

The **name** parameter is of type **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** method with that index.

Object **HTMLDocument**

HTMLDocument has the all the properties and methods of the **Document** object as well as the properties and methods defined below.

The **HTMLDocument** object has the following properties:

title

This property is of type **String**.

referrer

This read-only property is of type **String**.

domain

This read-only property is of type **String**.

URL

This read-only property is of type **String**.

body

This property is a **HTMLElement** object.

images

This read-only property is a **HTMLCollection** object.

applets

This read-only property is a **HTMLCollection** object.

links

This read-only property is a **HTMLCollection** object.

forms

This read-only property is a **HTMLCollection** object.

anchors

This read-only property is a **HTMLCollection** object.

cookie

This property is of type **String**.

The **HTMLDocument** object has the following methods:

open()

This method has no return value.

close()

This method has no return value.

write(text)

This method has no return value.

The **text** parameter is of type **String**.

writeln(text)

This method has no return value.

The **text** parameter is of type **String**.

getElementsByName(elementName)

This method returns a **NodeList** object.

The **elementName** parameter is of type **String**.

Object **HTMLElement**

HTMLElement has all the properties and methods of the **Element** object as well as the properties and methods defined below.

The **HTMLElement** object has the following properties:

id

This property is of type **String**.

title

This property is of type **String**.

lang

This property is of type **String**.

dir

This property is of type **String**.

className

This property is of type **String**.

Object **HTMLHtmlElement**

HTMLHtmlElement has all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLHtmlElement** object has the following properties:

version

This property is of type **String**.

Object **HTMLHeadElement**

HTMLHeadElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLHeadElement** object has the following properties:

profile

This property is of type **String**.

Object **HTMMLinkElement**

HTMMLinkElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMMLinkElement** object has the following properties:

disabled

This property is of type **Boolean**.

charset

This property is of type **String**.

href

This property is of type **String**.

hreflang

This property is of type **String**.

media

This property is of type **String**.

rel

This property is of type **String**.

rev

This property is of type **String**.

target

This property is of type **String**.

type

This property is of type **String**.

Object **HTMLTitleElement**

HTMLTitleElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLTitleElement** object has the following properties:

text

This property is of type **String**.

Object **HTMLMetaElement**

HTMLMetaElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLMetaElement** object has the following properties:

content

This property is of type **String**.

httpEquiv

This property is of type **String**.

name

This property is of type **String**.

scheme

This property is of type **String**.

Object **HTMLBaseElement**

HTMLBaseElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLBaseElement** object has the following properties:

href

This property is of type **String**.

target

This property is of type **String**.

Object **HTMLIsIndexElement**

HTMLIsIndexElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLIsIndexElement** object has the following properties:

form

This read-only property is a **HTMLFormElement** object.

prompt

This property is of type **String**.

Object **HTMLStyleElement**

HTMLStyleElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLStyleElement** object has the following properties:

disabled

This property is of type **Boolean**.

media

This property is of type **String**.

type

This property is of type **String**.

Object **HTMLBodyElement**

HTMLBodyElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLBodyElement** object has the following properties:

aLink

This property is of type **String**.

background

This property is of type **String**.

bgColor

This property is of type **String**.

link

This property is of type **String**.

text

This property is of type **String**.

vLink

This property is of type **String**.

Object **HTMLFormElement**

HTMLFormElement has all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLFormElement** object has the following properties:

elements

This read-only property is a **HTMLCollection** object.

length

This read-only property is a **long** object.

name

This property is of type **String**.

acceptCharset

This property is of type **String**.

action

This property is of type **String**.

enctype

This property is of type **String**.

method

This property is of type **String**.

target

This property is of type **String**.

The **HTMLFormElement** object has the following methods:

submit()

This method has no return value.

reset()

This method has no return value.

Object **HTMLSelectElement**

HTMLSelectElement has all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLSelectElement** object has the following properties:

type

This read-only property is of type **String**.

selectedIndex

This property is a **long** object.

value

This property is of type **String**.

length

This read-only property is a **long** object.

form

This read-only property is a **HTMLFormElement** object.

options

This read-only property is a **HTMLCollection** object.

disabled

This property is of type **Boolean**.

multiple

This property is of type **Boolean**.

name

This property is of type **String**.

size

This property is a **long** object.

tabIndex

This property is a **long** object.

The **HTMLSelectElement** object has the following methods:

add(element, before)

This method has no return value.

The **element** parameter is a **HTMLElement** object.

The **before** parameter is a **HTMLElement** object.

This method can raise a **DOMException** object.

remove(index)

This method has no return value.

The **index** parameter is a **long** object.

blur()

This method has no return value.

focus()

This method has no return value.

Object **HTMLOptGroupElement**

HTMLOptGroupElement has all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLOptGroupElement** object has the following properties:

disabled

This property is of type **Boolean**.

label

This property is of type **String**.

Object **HTMLOptionElement**

HTMLOptionElement has all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLOptionElement** object has the following properties:

form

This read-only property is a **HTMLFormElement** object.

defaultSelected

This property is of type **Boolean**.

text

This read-only property is of type **String**.

index

This read-only property is a **long** object.

disabled

This property is of type **Boolean**.

label

This property is of type **String**.

selected

This property is of type **Boolean**.

value

This property is of type **String**.

Object **HTMLInputElement**

HTMLInputElement has all the properties and methods of the **HTMLFormElement** object as well as the properties and methods defined below.

The **HTMLInputElement** object has the following properties:

defaultValue

This property is of type **String**.

defaultChecked

This property is of type **Boolean**.

form

This read-only property is a **HTMLFormElement** object.

accept

This property is of type **String**.

accessKey

This property is of type **String**.

align

This property is of type **String**.

alt

This property is of type **String**.

checked

This property is of type **Boolean**.

disabled

This property is of type **Boolean**.

maxLength

This property is a **long** object.

name

This property is of type **String**.

readOnly

This property is of type **Boolean**.

size

This property is of type **String**.

src

This property is of type **String**.

tabIndex

This property is a **long** object.

type

This property is of type **String**.

useMap

This property is of type **String**.

value

This property is of type **String**.

The **HTMLInputElement** object has the following methods:

blur()

This method has no return value.

focus()

This method has no return value.

select()

This method has no return value.

click()

This method has no return value.

Object **HTMLTextAreaElement**

HTMLTextAreaElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLTextAreaElement** object has the following properties:

defaultValue

This property is of type **String**.

form

This read-only property is a **HTMLFormElement** object.

accessKey

This property is of type **String**.

cols

This property is a **long** object.

disabled

This property is of type **Boolean**.

name

This property is of type **String**.

readOnly

This property is of type **Boolean**.

rows

This property is a **long** object.

tabIndex

This property is a **long** object.

type

This read-only property is of type **String**.

value

This property is of type **String**.

The **HTMLTextAreaElement** object has the following methods:

blur()

This method has no return value.

focus()

This method has no return value.

select()

This method has no return value.

Object **HTMLButtonElement**

HTMLButtonElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLButtonElement** object has the following properties:

form

This read-only property is a **HTMLFormElement** object.

accessKey

This property is of type **String**.

disabled

This property is of type **Boolean**.

name

This property is of type **String**.

tabIndex

This property is a **long** object.

type

This read-only property is of type **String**.

value

This property is of type **String**.

Object **HTMLLabelElement**

HTMLLabelElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLLabelElement** object has the following properties:

form

This read-only property is a **HTMLFormElement** object.

accessKey

This property is of type **String**.

htmlFor

This property is of type **String**.

Object **HTMLFieldSetElement**

HTMLFieldSetElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLFieldSetElement** object has the following properties:

form

This read-only property is a **HTMLFormElement** object.

Object **HTMLLegendElement**

HTMLLegendElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLLegendElement** object has the following properties:

form

This read-only property is a **HTMLFormElement** object.

accessKey

This property is of type **String**.

align

This property is of type **String**.

Object **HTMLUListElement**

HTMLUListElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLUListElement** object has the following properties:

compact

This property is of type **Boolean**.

type

This property is of type **String**.

Object **HTMLLOListElement**

HTMLLOListElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLLOListElement** object has the following properties:

compact

This property is of type **Boolean**.

start

This property is a **long** object.

type

This property is of type **String**.

Object **HTMLDListElement**

HTMLDListElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLDListElement** object has the following properties:

compact

This property is of type **Boolean**.

Object **HTMLDirectoryElement**

HTMLDirectoryElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLDirectoryElement** object has the following properties:

compact

This property is of type **Boolean**.

Object **HTMLMenuElement**

HTMLMenuElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLMenuElement** object has the following properties:

compact

This property is of type **Boolean**.

Object **HTMLLIElement**

HTMLLIElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLLIElement** object has the following properties:

type

This property is of type **String**.

value

This property is a **long** object.

Object **HTMLDivElement**

HTMLDivElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLDivElement** object has the following properties:

align

This property is of type **String**.

Object **HTMLParagraphElement**

HTMLParagraphElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLParagraphElement** object has the following properties:

align

This property is of type **String**.

Object **HTMLHeadingElement**

HTMLHeadingElement has the all the properties and methods of the **HTMLDivElement** object as well as the properties and methods defined below.

The **HTMLHeadingElement** object has the following properties:

align

This property is of type **String**.

Object **HTMLQuoteElement**

HTMLQuoteElement has the all the properties and methods of the **HTMLDivElement** object as well as the properties and methods defined below.

The **HTMLQuoteElement** object has the following properties:

cite

This property is of type **String**.

Object **HTMLPreElement**

HTMLPreElement has the all the properties and methods of the **HTMLDivElement** object as well as the properties and methods defined below.

The **HTMLPreElement** object has the following properties:

width

This property is a **long** object.

Object **HTMLBRElement**

HTMLBRElement has the all the properties and methods of the **HTMLDivElement** object as well as the properties and methods defined below.

The **HTMLBRElement** object has the following properties:

clear

This property is of type **String**.

Object **HTMLBaseFontElement**

HTMLBaseFontElement has the all the properties and methods of the **HTMLDivElement** object as well as the properties and methods defined below.

The **HTMLBaseFontElement** object has the following properties:

color

This property is of type **String**.

face

This property is of type **String**.

size

This property is of type **String**.

Object **HTMLFontElement**

HTMLFontElement has the all the properties and methods of the **HTMLDivElement** object as well as the properties and methods defined below.

The **HTMLFontElement** object has the following properties:

color

This property is of type **String**.

face

This property is of type **String**.

size

This property is of type **String**.

Object **HTMLHRElement**

HTMLHRElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLHRElement** object has the following properties:

align

This property is of type **String**.

noShade

This property is of type **Boolean**.

size

This property is of type **String**.

width

This property is of type **String**.

Object **HTMLModElement**

HTMLModElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLModElement** object has the following properties:

cite

This property is of type **String**.

dateTime

This property is of type **String**.

Object **HTMLAnchorElement**

HTMLAnchorElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLAnchorElement** object has the following properties:

accessKey

This property is of type **String**.

charset

This property is of type **String**.

coords

This property is of type **String**.

href

This property is of type **String**.

hreflang

This property is of type **String**.

name

This property is of type **String**.

rel

This property is of type **String**.

rev

This property is of type **String**.

shape

This property is of type **String**.

tabIndex

This property is a **long** object.

target

This property is of type **String**.

type

This property is of type **String**.

The **HTMLAnchorElement** object has the following methods:

blur()

This method has no return value.

focus()

This method has no return value.

Object **HTMLImageElement**

HTMLImageElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLImageElement** object has the following properties:

lowSrc

This property is of type **String**.

name

This property is of type **String**.

align

This property is of type **String**.

alt

This property is of type **String**.

border

This property is of type **String**.

height

This property is of type **String**.

hspace

This property is of type **String**.

isMap

This property is of type **Boolean**.

longDesc

This property is of type **String**.

src

This property is of type **String**.

useMap

This property is of type **String**.

vspace

This property is of type **String**.

width

This property is of type **String**.

Object **HTMLObjectElement**

HTMLObjectElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLObjectElement** object has the following properties:

form

This read-only property is a **HTMLFormElement** object.

code
This property is of type **String**.

align
This property is of type **String**.

archive
This property is of type **String**.

border
This property is of type **String**.

codeBase
This property is of type **String**.

codeType
This property is of type **String**.

data
This property is of type **String**.

declare
This property is of type **Boolean**.

height
This property is of type **String**.

hspace
This property is of type **String**.

name
This property is of type **String**.

standby
This property is of type **String**.

tabIndex
This property is a **long** object.

type
This property is of type **String**.

useMap
This property is of type **String**.

vspace
This property is of type **String**.

width
This property is of type **String**.

contentDocument
This read-only property is a **Document** object.

Object **HTMLParamElement**

HTMLParamElement has all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLParamElement** object has the following properties:

name
This property is of type **String**.

type
This property is of type **String**.

value
This property is of type **String**.

valueType

This property is of type **String**.

Object **HTMLAppletElement**

HTMLAppletElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLAppletElement** object has the following properties:

align

This property is of type **String**.

alt

This property is of type **String**.

archive

This property is of type **String**.

code

This property is of type **String**.

codeBase

This property is of type **String**.

height

This property is of type **String**.

hspace

This property is of type **String**.

name

This property is of type **String**.

object

This property is of type **String**.

vspace

This property is of type **String**.

width

This property is of type **String**.

Object **HTMLMapElement**

HTMLMapElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLMapElement** object has the following properties:

areas

This read-only property is a **HTMLCollection** object.

name

This property is of type **String**.

Object **HTMLAreaElement**

HTMLAreaElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLAreaElement** object has the following properties:

accessKey

This property is of type **String**.

alt

This property is of type **String**.

coords

This property is of type **String**.

href

This property is of type **String**.

noHref

This property is of type **Boolean**.

shape

This property is of type **String**.

tabIndex

This property is a **long** object.

target

This property is of type **String**.

Object **HTMLScriptElement**

HTMLScriptElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLScriptElement** object has the following properties:

text

This property is of type **String**.

htmlFor

This property is of type **String**.

event

This property is of type **String**.

charset

This property is of type **String**.

defer

This property is of type **Boolean**.

src

This property is of type **String**.

type

This property is of type **String**.

Object **HTMLTableElement**

HTMLTableElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLTableElement** object has the following properties:

caption

This property is a **HTMLTableCaptionElement** object.

tHead

This property is a **HTMLTableSectionElement** object.

tFoot

This property is a **HTMLTableSectionElement** object.

rows

This read-only property is a **HTMLCollection** object.

tBodies

This read-only property is a **HTMLCollection** object.

align

This property is of type **String**.

bgColor

This property is of type **String**.

border

This property is of type **String**.

cellPadding

This property is of type **String**.

cellSpacing

This property is of type **String**.

frame

This property is of type **String**.

rules

This property is of type **String**.

summary

This property is of type **String**.

width

This property is of type **String**.

The **HTMLTableElement** object has the following methods:

createTHead()

This method returns a **HTMLElement** object.

deleteTHead()

This method has no return value.

createTFoot()

This method returns a **HTMLElement** object.

deleteTFoot()

This method has no return value.

createCaption()

This method returns a **HTMLElement** object.

deleteCaption()

This method has no return value.

insertRow(index)

This method returns a **HTMLElement** object.

The **index** parameter is a **long** object.

This method can raise a **DOMException** object.

deleteRow(index)

This method has no return value.

The **index** parameter is a **long** object.

This method can raise a **DOMException** object.

Object **HTMLTableCaptionElement**

HTMLTableCaptionElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLTableCaptionElement** object has the following properties:

align

This property is of type **String**.

Object **HTMLTableColElement**

HTMLTableColElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLTableColElement** object has the following properties:

align

This property is of type **String**.

ch

This property is of type **String**.

chOff

This property is of type **String**.

span

This property is a **long** object.

vAlign

This property is of type **String**.

width

This property is of type **String**.

Object **HTMLTableSectionElement**

HTMLTableSectionElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLTableSectionElement** object has the following properties:

align

This property is of type **String**.

ch

This property is of type **String**.

chOff

This property is of type **String**.

vAlign

This property is of type **String**.

rows

This read-only property is a **HTMLCollection** object.

The **HTMLTableSectionElement** object has the following methods:

insertRow(index)

This method returns a **HTMLElement** object.

The **index** parameter is a **long** object.

This method can raise a **DOMException** object.

deleteRow(index)

This method has no return value.

The **index** parameter is a **long** object.

This method can raise a **DOMException** object.

Object **HTMLTableRowElement**

HTMLTableRowElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLTableRowElement** object has the following properties:

rowIndex

This read-only property is a **long** object.

sectionRowIndex

This read-only property is a **long** object.

cells

This read-only property is a **HTMLCollection** object.

align

This property is of type **String**.

bgColor

This property is of type **String**.

ch

This property is of type **String**.

chOff

This property is of type **String**.

vAlign

This property is of type **String**.

The **HTMLTableRowElement** object has the following methods:

insertCell(index)

This method returns a **HTMLElement** object.

The **index** parameter is a **long** object.

This method can raise a **DOMException** object.

deleteCell(index)

This method has no return value.

The **index** parameter is a **long** object.

This method can raise a **DOMException** object.

Object **HTMLTableCellElement**

HTMLTableCellElement has all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLTableCellElement** object has the following properties:

cellIndex

This read-only property is a **long** object.

abbr

This property is of type **String**.

align

This property is of type **String**.

axis

This property is of type **String**.

bgColor

This property is of type **String**.

ch

This property is of type **String**.

chOff

This property is of type **String**.

colSpan

This property is a **long** object.

headers

This property is of type **String**.

height

This property is of type **String**.

noWrap

This property is of type **Boolean**.

rowSpan

This property is a **long** object.

scope

This property is of type **String**.

vAlign

This property is of type **String**.

width

This property is of type **String**.

Object **HTMLFrameSetElement**

HTMLFrameSetElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLFrameSetElement** object has the following properties:

cols

This property is of type **String**.

rows

This property is of type **String**.

Object **HTMLFrameElement**

HTMLFrameElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLFrameElement** object has the following properties:

frameBorder

This property is of type **String**.

longDesc

This property is of type **String**.

marginHeight

This property is of type **String**.

marginWidth

This property is of type **String**.

name

This property is of type **String**.

noResize

This property is of type **Boolean**.

scrolling

This property is of type **String**.

src

This property is of type **String**.

contentDocument

This read-only property is a **Document** object.

Object **HTMLIFrameElement**

HTMLIFrameElement has the all the properties and methods of the **HTMLElement** object as well as the properties and methods defined below.

The **HTMLIFrameElement** object has the following properties:

align

This property is of type **String**.

frameBorder

This property is of type **String**.

height

This property is of type **String**.

longDesc

This property is of type **String**.

marginHeight

This property is of type **String**.

marginWidth

This property is of type **String**.

name

This property is of type **String**.

scrolling

This property is of type **String**.

src

This property is of type **String**.

width

This property is of type **String**.

contentDocument

This read-only property is a **Document** object.

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:

Lauren Wood (SoftQuad Software Inc., *chair*), Andrew Watson (Object Management Group), Andy Heninger (IBM), Arnaud Le Hors (W3C and IBM), Ben Chang (Oracle), Bill Smith (Sun), Bill Shea (Merrill Lynch), Bob Sutor (IBM), 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), James Davidson (Sun), Jared Sorensen (Novell), 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.), Laurence Cable (Sun), Mark Davis (IBM), Mark Scardina (Oracle), Martin Dürst (W3C), Mick Goulish (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*), Ramesh Lekshmyanarayanan (Merrill Lynch), Ray Whitmer (iMall, Excite@Home and Netscape), Rich Rollman (Microsoft), Rick Gessner (Netscape), Scott Isaacs (Microsoft), Sharon Adler (INSO), Steve Byrne (JavaSoft), Tim Bray (invited), Tom Pixley (Netscape), Vidur Apparao (Netscape), Vinod Anupam (Lucent).

Thanks to all those who have helped to improve this specification by sending suggestions and corrections.

E.1: Production Systems

This specification was written in XML. The HTML, OMG IDL, Java and ECMA Script bindings were all produced automatically.

Thanks to Joe English, author of cost, which was used as the basis for producing DOM Level 1. Thanks also to Gavin Nicol, who wrote the scripts which run on top of cost. Arnaud Le Hors and Philippe Le Hégarret maintained the scripts.

For 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.

Thanks also to Jan Kärroman, author of html2ps, which we use in creating the PostScript version of the specification.

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. [HTML4.0]

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.

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>.

G.1: Normative references

DOM Level 2 Core

W3C (World Wide Web Consortium) Document Object Model Level 2 Core Specification, November 2000. Available at <http://www.w3.org/TR/2000/REC-DOM-Level-2-Core-20001113>

ECMAScript

ECMA (European Computer Manufacturers Association) ECMAScript Language Specification. Available at <http://www.ecma.ch/ecma1/STAND/ECMA-262.HTM>

HTML4.0

W3C (World Wide Web Consortium) HTML 4.0 Specification, April 1998. Available at <http://www.w3.org/TR/1998/REC-html40-19980424>

Java

Sun Microsystems Inc. The Java Language Specification, James Gosling, Bill Joy, and Guy Steele, September 1996. Available at <http://java.sun.com/docs/books/jls>

OMGIDL

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DOM Level 2 Style Sheets and CSS

W3C (World Wide Web Consortium) Document Object Model Level 2 Style Sheets and CSS Specification, November 2000. Available at <http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113>

RFC2396

IETF (Internet Engineering Task Force) RFC 2396: Uniform Resource Identifiers (URI): Generic Syntax, eds. T. Berners-Lee, R. Fielding, L. Masinter. August 1998. Available at <http://www.ietf.org/rfc/rfc2396.txt>

G.2: Informative references

DOM Level 1

W3C (World Wide Web Consortium) DOM Level 1 Specification, October 1998. Available at <http://www.w3.org/TR/REC-DOM-Level-1>

XHTML10

W3C (World Wide Web Consortium) XHTML 1.0: Extensible HyperText Markup Language, A Reformulation of HTML 4.0 in XML 1.0. Available at <http://www.w3.org/TR/2000/REC-xhtml1-20000126>

G.2: Informative references

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