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# Safari HTML Reference

User Experience



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# Introduction

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This document details every HTML element and property supported by WebKit and Safari on all platforms, which include Mac OS X, iPhone OS, and Windows. You should read this if you are developing web content that will be displayed in Safari or within a WebKit-based application.

This document is not intended as a comprehensive specification. The HTML5 specification is available at <http://dev.w3.org/html5/spec/Overview.html>.

**Note:** When used to describe the platform availability of a particular element or attribute, “Safari” in this document refers to Safari in Mac OS X and Windows. Elsewhere, “Safari” refers to Safari on any platform.

## Organization of This Document

The following articles describe key aspects of Safari's HTML support:

- [“Explanation of Terms”](#) (page 17) explains terminology used in this reference.
- [“Supported HTML”](#) (page 19) describes all the HTML elements supported by Safari. This includes standard tags (as defined by the World Wide Web Consortium, or W3C), common tags that are not part of a standard, and Apple extensions.
- [“Supported Attributes”](#) (page 51) describes the HTML attributes supported by Safari.
- [“Supported Input Values”](#) (page 97) describes supported types for the `input` tag.
- [“Supported Meta Tags”](#) (page 101) describes additional keys for the `meta` tag.
- [“Supported Accessibility Roles”](#) (page 105) describes supported accessibility roles defined in the WAI-ARIA specification.

## See Also

There are a variety of other resources for Safari web content developers in the ADC Reference Library.

If you are designing web content for Safari on iPhone, then you should also read:

- *iPhone Human Interface Guidelines for Web Applications* provides user interface guidelines for designing webpages and web applications for Safari on iPhone.
- *Apple URL Scheme Reference* describes how to use the Phone, Mail, Text, YouTube, iTunes, and Maps applications from your webpages.

If you want to learn more about what Cascading Style Sheets (CSS) properties are supported in Safari, then read:

- *Safari CSS Reference* describes the CSS properties supported by Safari and WebKit applications.

If you are using JavaScript and want access to the DOM or use the canvas object, then read:

- *WebKit DOM Programming Topics* describes how to use JavaScript in web content for WebKit-based applications.
- *WebKit DOM Reference* describes the API for accessing the WebKit's Document Object Model.

If you are developing web content for Safari on the desktop and iPhone OS, then you should read:

- *Safari User Guide for Web Developers* describes how to use the Debug menu in Safari.
- *Dashcode User Guide* describes how to use Dashcode to create web applications.

To learn more about other web technologies available on Mac OS X that you can use to create your web applications, read *Getting Started with Internet and Web*.

If you want to learn more about WebKit or contribute to the open source project, then go to [The WebKit Open Source Project](#).

If you want to read the WebKit W3C proposals then go to: <http://www.webkit.org/specs>.



# Explanation of Terms

---

This article describes terms used in an element or attribute listing.

## Availability

**Availability** tells the versions of Safari in which the element first appeared or was deprecated. Deprecated tags are not guaranteed to be supported in the future. Elements available in Safari for Mac OS X and Windows are not automatically available in iPhone OS, and vice versa.

## Support Level

**Support Level** tells the source of a given tag if it is not part of a W3C standard or otherwise supported by the majority of current browsers. The possible values are:

- Apple extension—properties defined by Apple. These properties are fully supported by WebKit and Safari. A few of these extensions, where noted, are specific to Safari on iPhone OS.

Tags may be shifted to other categories as time passes, particularly as tags are added to relevant standards.



# Supported HTML

---

Safari and WebKit implement a large subset of the HTML 5 Specification defined by the World Wide Web Consortium (W3C). This reference defines every symbol in the specification that Safari implements. If a tag is not listed here, it is not supported by Safari and WebKit.

## HTML Tags

### a

---

Specifies a hyperlink or a page anchor.

#### Syntax

```
<a href="URL"> ... </a>
```

#### Discussion

When the `href` attribute is used with this tag, the text or image enclosed by the tag becomes a hyperlink, linked to the URL specified by `URL`. When the `name` attribute is used, the tag becomes an anchor which can be linked to by a hyperlink.

#### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

### abbr

---

Specifies an abbreviated form of a string.

#### Syntax

```
<abbr title ="fullstring"> abbrev </abbr>
```

#### Discussion

In Safari, the string specified by `abbrev` is displayed on screen while the content of `fullstring` is revealed in tooltip form by holding the mouse over the abbreviated value. This tag is also useful for applications that read the underlying HTML code of a page, such as screen readers.

#### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

### acronym

---

Specifies the acronym form of a string.

### Syntax

```
<acronym title ="fullstring"> acro </acronym>
```

### Discussion

In Safari, the string specified by `acro` is displayed on screen while the content of `fullstring` is revealed in tooltip form by holding the mouse over the acronym itself. This tag is also useful for applications that read the underlying HTML code of a page, such as screen readers.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## address

---

Specifies a street address.

### Syntax

```
<address> streetaddress </address>
```

### Discussion

This tag specifies a street address. The address enclosed within the tags is italicized. Line breaks (such as ones between a street address and a city/state/zip) are not automatically inserted.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## applet

---

Embeds a Java applet within a page. Though deprecated, this is the preferred element for embedding Java applets in Safari.

### Syntax

```
<applet height="value" width="value" archive="URL">  
<applet height="value" width="value" code="URL">
```

### Discussion

The applet is displayed at the location of the tag in the page, with a height specified by `height` and a width specified by `width`. The location of the applet is given by the URL specified by `archive` if the applet is stored in a Java archive or zip file, or `code` if the applet is in a standard java class file.

### Availability

Available in Safari 1.0 and later. This tag has been deprecated in the HTML 4.01 standard.

## area

---

Specifies a specific area within an image map.

### Syntax

```
<area shape ="shapetype" coords ="coords" href ="URL">
```

**Discussion**

This tag defines discrete areas within an image map (defined by an enclosing `<map>` tag). The area defined by this tag will act as a hyperlink, linked to the URL specified by `URL`, bounding shape specified by shape and coordinates specified by `coords`.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## audio

---

Embeds audio into a webpage.

**Syntax**

```
<audio src="url"
  autoplay="autoplay" <!-- Boolean attribute. Omit to prevent autoplay. -->
  start="00:00:00.00"
  loopstart="00:00:00.07" <!-- 7 seconds -->
  loopend="00:00:00.19"
  end="00:00:00.27"
  playcount="4" <!-- play 4x -->
  controls="true" >
```

**Discussion**

The `audio` element may contain fallback content for browsers that do not support this element. Any content enclosed within the `audio` element is ignored by browsers that support the `audio` element (but it must be valid HTML).

The `audio` element supports inclusion of `source` elements to provide multiple versions of an audio clip encoded with different codecs, at different bit rates, and so on. These `source` elements must be the first elements inside the `audio` element before any fallback content. See “[source](#)” (page 42) for more information.

**Availability**

Available in Safari 3.1 and later. Available in iPhone OS 3.0 and later.

## b

---

Displays text in a bold style.

**Syntax**

```
<b> content </b>
```

**Discussion**

The text specified by `content` is displayed in the bold style but otherwise will match the style of the enclosing element. Styles should be more finely tuned using CSS instead of using HTML style tags.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## base

---

Defines the base URL for all linked objects on a page.

**Syntax**

```
<base href ="URL">
```

**Discussion**

The URL specified by `href` will act as the base URL for any relatively-linked object—such as an image, hyperlink, or Java applet—on the page. If a URL is specified absolutely (with a fully-qualified URL), it will not be affected by this tag. This tag must be placed in the `head` section of a page.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## basefont

---

Deprecated. Specifies the base font for a page.

**Syntax**

```
<basefont color ="color" face ="face" size ="size">
```

**Discussion**

The font is used as the default font for the page unless otherwise specified. The font is specified by `face`, its size is specified by `size`, and its color is specified by `color`. These attributes and their various options are defined in “[Supported Attributes](#)” (page 51).

**Availability**

Available in Safari 1.0 and later. This tag has been deprecated in the HTML 4.01 standard. You should use CSS styling to set this property for the enclosing elements unless you have a specific reason to use this tag.

## bdo

---

Displays text in a different direction.

**Syntax**

```
<bdo dir ="dir"> content </bdo>
```

**Discussion**

The text specified by `content` is displayed left-to-right if `dir` is set to “`ltr`”; it is displayed right-to-left if it is set to “`rtl`.”

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## big

---

Displays text in a large size.

### Syntax

```
<big> content </big>
```

### Discussion

The text specified by `content` is displayed in a larger size but otherwise will match the style of the enclosing element. Styles should be more finely tuned using CSS instead of using HTML style tags.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## blockquote

---

Displays text in an indented quotation style.

### Syntax

```
<blockquote> content </blockquote>
```

### Discussion

The text specified by `content` is indented (on both sides of the text block), but otherwise will match the style of the enclosing element. Styles should be more finely tuned using CSS instead of using HTML style tags.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## body

---

Defines the entirety of the document body.

### Syntax

```
<body> content </body>
```

### Discussion

The content specified by `content` comprises most of the content of the page. Though you can specify style attributes within this tag, this behavior has been deprecated in HTML 4.01 and should be replaced with CSS style attributes.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## br

---

Represents a single line break.

### Syntax

```
<br>
```

### Discussion

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## button

---

Defines an interactive button on a page.

### Syntax

```
<button> content </button>
```

### Discussion

The text specified by `content` is displayed within the frame of the button. This differs from the “button” input type in that you can specify content within the button tags.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## canvas

---

Specifies an advanced drawing region.

### Syntax

```
<canvas id="identifer" height="value" width="value">
```

### Discussion

This tag specifies the location of an advanced drawing region. The canvas tag supports the same attributes as the `<img>` tag with the exception of the `src` attribute, which is ignored. You can specify any of the other attributes you would normally specify for an image. The identifier specified by `id` is required for Dashboard widgets, as are the height and width specified by `height` and `width` respectively.

Read “Using the Canvas” for more information on the canvas tag.

### Availability

Available in Safari 1.3 and later. Available in iPhone OS 1.0 and later.

## caption

---

Defines a caption for an HTML table.

### Syntax

```
<caption> content </caption>
```

### Discussion

The text specified by `content` is displayed as a caption for the table in which it is enclosed.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## center

---

Deprecated. Defines a region of content to be centered.



### Syntax

```
<center> content </center>
```

### Discussion

The content specified by `content` is centered within its enclosing element.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later. This tag has been deprecated in the HTML 4.01 standard. Styles should be more finely tuned using CSS instead of using HTML style tags.

## cite

---

Specifies a citation.

### Syntax

```
<cite> content </cite>
```

### Discussion

This tag specifies a citation. The text enclosed within the tags is italicized.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## code

---

Specifies text as computer code.

### Syntax

```
<code> content </code>
```

### Discussion

This tag specifies a block of code. The text enclosed within the tags will use a “teletype” monospaced character font.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## col

---

Specifies attributes of columns in a table.

### Syntax

```
<col properties >
```

### Discussion

This tag allows you specify attributes for a given table column, with those attributes specified by `properties`. A series of `<col>` tags must be placed in order of the actual table columns. For example, to set center column alignment for a columns, you would use `<col align="center">`. These must be placed within a table or a `colgroup`.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## colgroup

---

Specifies attributes for multiple columns in a table.

### Syntax

```
<colgroup properties ></colgroup>
```

### Discussion

This tag allows you specify attributes for multiple table columns, with those attributes specified by `properties`. For example, to set center column alignment for three different columns, you would use `<colgroup span="3" align="center">`. These must be placed within a table.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## dd

---

Specifies a definition for a term.

### Syntax

```
<dd> content </dd>
```

### Discussion

This tag specifies a definition for a term within an HTML definition list. The text enclosed within the tags is indented under the term specified by the enclosing `<dt>` block.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## del

---

Specifies a block of deleted text.

### Syntax

```
<del> content </del>
```

### Discussion

This tag specifies a block of deleted text, which is marked with a crossbar.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## dfn

---

Specifies a definition.

### Syntax

```
<dfn> content </dfn>
```

### Discussion

This tag specifies a definition of any sort.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## dir

---

Deprecated. Specifies a directory list.

### Syntax

```
<dir>  
<li> content </li>  
</dir>
```

### Discussion

This tag specifies a directory list, each element of which is specified by an `<li>` tag..

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later. This tag has been deprecated in the HTML 4.01 standard. List styles should be more finely tuned using CSS instead of using HTML style tags, and the structure should be defined instead with the `<ul>` and `<ol>` tags.

## div

---

Specifies a styleless section in a document.

### Syntax

```
<div> content </div>
```

### Discussion

This tag specifies a section in a document, as a block element. Multiple divs will stack vertically on the page. Use CSS styles to tune the style properties of this element.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## dl

---

Specifies a definition list.

### Syntax

```
<d1> content </d1>
```

### Discussion

This tag specifies a definition list. Within the bounds of this block, terms to be defined should be marked using the `<dt>` tag, and their definitions should be marked using the `<dd>` tag.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## dt

---

Specifies a definition term.

### Syntax

```
<dt> content </dt>
```

### Discussion

This tag specifies a definition term. It should be used to mark an actual term within the bounds of a definition list ( `<d1>` ). Definitions should follow each term, and be marked using the `<dd>` tag.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## em

---

Specifies emphasized text.

### Syntax

```
<em> content </em>
```

### Discussion

This tag specifies a block of emphasized text. Styles should be more finely tuned using CSS instead of using HTML style tags.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## embed

---

Deprecated. Embeds an object within a page.

### Syntax

```
<embed height ="value" width ="value" src/code="URL" > content </embed>
```

### Discussion

The object, if visible, is displayed at the location of the tag in the page, with a height specified by `height` and a width specified by `width`. The location of the object is given by the URL specified by `src`, or `code` if the applet is in a standard java class file.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later. This tag has been deprecated in the HTML 4.01 standard. You should use the `<object>` tag to embed objects unless you have a specific reason to use this tag .

## fieldset

---

Specifies a set of fields.

### Syntax

```
<fieldset>
  caption input
  caption input
</fieldset>
```

### Discussion

This tag encloses a set of input fields, and will draw a box around them. The fields themselves are made with input tags specified by `input` and the name of the field is plaintext specified by `caption`.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## font

---

Deprecated. Defines a font style for the content the tag encloses.

### Syntax

```
<font> content </font>
```

### Discussion

The content specified by `content` is altered based on a variety of properties, such as `face`, `size`, and `color`.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later. This tag has been deprecated in the HTML 4.01 standard. Styles should be more finely tuned using CSS instead of using HTML style tags.

## form

---

Specifies an HTML form.

### Syntax

```
<form> formContent </form>
```

### Discussion

This tag specifies a form on a page. Each individual form (with its variety of inputs such as checkboxes, text fields, and password fields) should be enclosed in its own form tag set. If using the form for some kind of submission, the form's submit button should also be enclosed within this tag set.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## frame

---

Specifies an individual frame.

### Syntax

```
<frame src ="URL">
```

### Discussion

This tag specifies an individual frame within a frameset. The URL for the frame is specified by `src`.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## frameset

---

Specifies a frameset.

### Syntax

```
<frameset>
```

### Discussion

This tag specifies the overall frameset for a number of frames (each specified with the `<frame>` tag. The URL for the frame is specified by `src`. The size of each column should be specified by the `cols` and `rows` properties.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## h1 - h2 - ... - h6

---

Specifies various headers.

### Syntax

```
<h#> content </h#>
```

### Discussion

This tag specifies a block of header text, with `<h1>` representing the largest font size and `<h6>` representing the smallest. Styles should be more finely tuned using CSS instead of using HTML style tags.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## head

---

Specifies metainformation about the HTML document.

### Syntax

```
<head> content </head>
```

### Discussion

This tag can contain a number of informational tags, such as `<title>` for the page title or `<style>` for a CSS definition block.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## hr

---

Specifies a horizontal line.

### Syntax

```
<hr>
```

### Discussion

This tag specifies a horizontal line. Styles should be more finely tuned using CSS instead of using HTML style tags.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## html

---

Specifies the HTML document.

### Syntax

```
<html>
```

### Discussion

This tag specifies an HTML document, and should encompass all the content of the page.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## i

---

Displays text in an italic style.

### Syntax

```
<i> content </i>
```

### Discussion

The text specified by `content` is displayed in the italic style but otherwise will match the style of the enclosing element. Styles should be more finely tuned using CSS instead of using HTML style tags.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## iframe

---

Displays a URL in an inline frame.

### Syntax

```
<iframe src = "URL"></iframe>
```

### Discussion

The URL specified by `src` will load into an inline frame placed wherever the `iframe` is entered.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## img (or image)

---

Displays an inline image.

### Syntax

```
<img src = "URL">
```

### Discussion

The image file specified by `src` is displayed inline in the enclosing element.

### Availability

`img` is available in Safari 1.0 and later. `image` is available in Safari 3.0 and later. Both are available in iPhone OS 1.0 and later.

## input

---

Displays an input for an HTML form.

### Syntax

```
<input type = "type">
```

### Discussion

This tag specifies some kind of input mechanism in an HTML form. The `type` specified by `type` can be one of the following: `button`, for a basic button; `checkbox` for a checkbox element; `file` for a file upload interface; `hidden` for an invisible input type; `password` for a shielded password field; `radio` for a radio button element; `reset` for a form-reset button; `submit` for a form-submit button; or `text` for a standard text field.

Safari on iPhone OS extends the `input` tag with two additional properties, `autocorrect` and `autocapitalize`, described in [“Supported Attributes”](#) (page 51).

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## ins

---

Specifies a block of inserted text.



### Syntax

```
<ins> content </ins>
```

### Discussion

This tag specifies a block of inserted text, which is marked with an underline.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## isindex

---

Deprecated. Specifies an index field.

### Syntax

```
<isindex prompt ="prompt">
```

### Discussion

This tag displays a prompt and a search field, which as a form will submit the value using a GET request. The default prompt in Safari is “This is a searchable index. Enter search keywords:”, but this can be overridden by specifying a string for the `prompt` attribute.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later. This tag has been deprecated in the HTML 4.01 standard. You should use standard HTML input types to process queries instead of using this tag.

## kbd

---

Specifies text as keyboard text.

### Syntax

```
<kbd> content </kbd>
```

### Discussion

This tag specifies a block of keyboard text. The text enclosed within the tags will use a “teletype” monospaced character font.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## keygen

---

Provides public key generation for forms.

### Syntax

```
<keygen name="name" challenge="challenge_value">
```

### Discussion

This tag places a form element on the page which will generate a 512, 1024, or 2048-bit public key as its value. The challenge specified by `challenge` and the public key are DER encoded and digitally

signed with a private key (stored in a local database). The result is then encoded in base64 and is returned as the value of this field.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## label

---

Specifies a label for input controls.

**Syntax**

```
<label for ="id"> content </label>
```

**Discussion**

This tag specifies a label for the input control whose name is specified by `for`. The text specified by `content` makes up the body of the label.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## layer

---

Specifies individual layers on a webpage.

**Syntax**

```
<layer>content</layer>
```

**Discussion**

This tag specifies an independent layer of content on a webpage. This tag is not well-supported and should be replaced with `<iframe>` frames using CSS styling techniques in HTML 4.01 Transitional documents. In HTML 4.01 Strict documents, this tag should be replaced with `<object>` or `<div>`.

**Availability**

Available in Safari 1.0 and later. Available with limited support in iPhone OS 1.0 and later.

## legend

---

Specifies the caption for a fieldset.

**Syntax**

```
<legend> content </legend>
```

**Discussion**

This tag specifies the label for a fieldset (specified by the `<fieldset>` tag). The caption specified by `content` is merged with the box surrounding the fieldset.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## li

---

Specifies a list element.

### Syntax

```
<li> content </li>
```

### Discussion

Within a list block (specified by `<ul>` for an unordered list, or `<ol>` for an ordered list), this tag specifies single list element, whose content is specified by `content`. List styles should be more finely tuned using CSS instead of using HTML style tags.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## link

---

Specifies a connection to an external file.

### Syntax

```
<link href ="URL">
```

### Discussion

This tag specifies an external file which is related to the HTML document it is enclosed in. For example, you should use this tag in the head of an HTML document to specify an external CSS stylesheet.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## listing

---

Deprecated. Equivalent to [“pre”](#) (page 40).

### Syntax

```
<listing>
```

### Discussion

This tag is supported for backwards compatibility only. You should not use it in new documents.

### Availability

Available in Safari 3.0 and later. Available in iPhone OS 1.0 and later. Deprecated in HTML 3.2, not available in HTML 4 and later.

## map

---

Specifies a browser-processed image map.

### Syntax

```
<map name ="id" id ="id">
```

### Discussion

This tag encloses the `area` elements that define the regions of an image map. The identifier specified by `id` and by `name` should be used by an `<img>` element's `usemap` property.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## marquee

---

Specifies a horizontally scrolling block of content.

### Syntax

```
<marquee>content</marquee>
```

### Discussion

This tag specifies a block of content that scrolls horizontally (by default, across 100% of the enclosing element). The content specified by `content` can be arbitrary—it is not limited to text alone. You can specify a custom width using CSS styling techniques.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## menu

---

Deprecated. Specifies a menu list.

### Syntax

```
<menu> content </menu>
```

### Discussion

This tag specifies a definition list. Within the bounds of this block, terms to be defined should be marked using the `<dt>` tag, and their definitions should be marked using the `<dd>` tag,

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later. This tag has been deprecated in the HTML 4.01 standard. List styles should be more finely tuned using CSS instead of using HTML style tags, and the structure should be defined instead with the `<ul>` and `<ol>` tags.

## meta

---

Specifies metainformation about an HTML page.

### Syntax

```
<meta name ="title" content ="content">
```

### Discussion

This tag specifies a list of metainformation about a page, such as keywords for a search engine to index. The title specified by `name` defines what metainformation you are displaying. The text specified by `content` is the actual metainformation.

For information on Apple-specific meta tag keys, see [“Supported Meta Tags”](#) (page 101).

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## nobr

---

Specifies a region of content with no embedded line breaks.

**Syntax**

```
<nobr>content</nobr>
```

**Discussion**

The content specified by `content` is displayed with no line breaks. It is intended for blocks that must remain on one line.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## noembed

---

Specifies content to display to browsers that do not support embedded objects.

**Syntax**

```
<noembed>content</noembed>
```

**Discussion**

This tag specifies a block of content that will display in browsers that do not support embedded objects.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## noframes

---

Specifies content that displays in browsers that do not support frames.

**Syntax**

```
<noframes> content </noframes>
```

**Discussion**

This tag specifies a block of content that displays in browsers that do not support frames or have them deactivated.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## nolayer

---

Specifies content that displays in browsers that do not support layers.

### Syntax

```
<no layer>content</no layer>
```

### Discussion

This tag specifies a block of content that displays in browsers that do not support layers.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## noscript

---

Specifies content that displays in browsers that do not run scripts.

### Syntax

```
<noscript> content </noscript>
```

### Discussion

This tag specifies a block of content that displays to browsers who do not support execution of scripts or have them deactivated.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## object

---

Embeds an object within a page.

### Syntax

```
<object height="value" width="value" archive="URL" data="URL">content</object>  
<object height="value" width="value" data="URL" codebase="URL">content</object>
```

### Discussion

The object is displayed at the location of the tag in the page, with a height specified by `height` and a width specified by `width`.

The location of the object is given by the URL specified by `archive` for a Java archive, `data` for some arbitrary embedded data (an image, for example), or `codebase` for object code of any other type.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## ol

---

Specifies an ordered list.

### Syntax

```
<ol> content </ol>
```

### Discussion

This tag specifies an ordered, numbered list. Within the bounds of this block, list items should be defined using the `<li>` tag.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## optgroup

---

Specifies a group of options.

### Syntax

```
<optgroup label = "label"> options </optgroup>
```

### Discussion

Within a `select` input type, this tag specifies a subgroup of options. Within the bounds of this block, individual options are specified using the `<option>` tag. The title of the subgroup is specified by `label`, and in Safari is displayed as bold grey text, with its associated options indented under it.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## option

---

Specifies a list option.

### Syntax

```
<option value = "value"> title </option>
```

### Discussion

Within a `select` input type, this tag specifies a single selectable option. The form value of the option is specified by `value`, and its visible name is specified by `title`. These can be placed directly within a `select` input type or within an `optgroup` within it.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## p

---

Displays a paragraph.

### Syntax

```
<p> content </p>
```

### Discussion

This tag indicates a paragraph in the document.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## param

---

Represents a parameter for an `object` declaration.

### Syntax

```
<param name ="name" value ="value">
```

### Discussion

This tag represents a specific parameter for an embedded `object` element. You can place any number of these, but they must be enclosed within the `<object>` block. The parameter's name/key is specified by `name` and its value is specified by `value`.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## plaintext

---

Represents a block of preformatted text.

### Syntax

```
<plaintext>content</plaintext>
```

### Discussion

This tag preserves the formatting of the block of text specified by `content`, specifically line breaks and multiple spaces (normal text operation in Safari displays no difference between a single space and multiple consecutive spaces). In Safari, text enclosed in this element is also rendered in a monospace "teletype" font. This also stops the interpretation of HTML tags, so they are rendered onscreen. This tag is not well-supported and may cause unintended behavior in Safari; consider using the `<pre>` tag instead.

### Availability

Available in Safari 1.0 and later. Available with limited support in iPhone OS 1.0 and later.

## pre

---

Represents a block of preformatted text.

### Syntax

```
<pre> content </pre>
```

### Discussion

This tag preserves the formatting of the block of text specified by `content`, specifically line breaks and multiple spaces (normal text operation in Safari displays no difference between a single space and multiple consecutive spaces). In Safari, text enclosed in this element is also rendered in a monospace "teletype" font.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## q

---

Displays an inline quotation.



### Syntax

```
<q> content </q>
```

### Discussion

The text specified by `content` is displayed in quotes but otherwise will match the style of the enclosing element. Styles should be more finely tuned using CSS instead of using HTML style tags.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## S

---

Deprecated. Defines a block of text in strikethrough style.

### Syntax

```
<s> content </s>
```

### Discussion

The content specified by `content` is rendered with a crossbar.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later. This tag has been deprecated in the HTML 4.01 standard. The `<del>` tag is more appropriate for this function. Styles should be more finely tuned using CSS instead of using HTML style tags.

## samp

---

Specifies text as sample code.

### Syntax

```
<samp> content </samp>
```

### Discussion

This tag specifies a block of code. The text enclosed within the tags will use a “teletype” monospaced character font.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## script

---

Embeds and executes script code.

### Syntax

```
<script type =“mimetype”> code </script>
```

### Discussion

This tag specifies a block of script code, such as JavaScript. The code specified by `code` is invisible onscreen, but is visible in the page source. Code embedded within script tags (unless defined inside functions) is executed immediately on page load. The MIME type of the script should be specified by `type`.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## select

---

Specifies a selection input type.

### Syntax

```
<select> options </select>
```

### Discussion

This tag specifies a selection menu. This block must contain a set of `option` elements or `optgroup` elements containing options. In Safari, if the `size` property is explicitly set for this tag, the input box will resemble a Mac OS X combo box, otherwise it will resemble a pop-up menu.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## small

---

Displays text in a small size.

### Syntax

```
<small> content </small>
```

### Discussion

The text specified by `content` is displayed in a smaller size but otherwise will match the style of the enclosing element. Styles should be more finely tuned using CSS instead of using HTML style tags.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## SOURCE

---

Provides a resource URI for a multimedia element such as `audio` or `video`.

### Syntax

```
<video poster="bananas.png" ... >
  <source
    src="bananas.mp4"
    type="video/mp4; codecs=&quot;avc1.42E01E, mp4a.40.2&quot;"
    media="screen"
    pixelration="1.78"  <!-- 16:9 -->
  >
</source>
<source ...></source>
<source ...></source>

  <!-- Fallback content for browsers that do not support the video tag goes
here. -->
```

```
</video>
```

### Discussion

Web developers should take care to specify type and codec information appropriately. Browsers use this information to choose the media that is most appropriate according to available codecs, screen resolution, and so on.

### Availability

Available in Safari 3.1 and later.

## span

---

Specifies an inline styleless section in a document.

### Syntax

```
<span> content </span>
```

### Discussion

This tag specifies a section in a document. Multiple consecutive spans are placed horizontal on the page by default. Use CSS styles to tune the style properties of this element.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## strike

---

Deprecated. Defines a block of text in strikethrough style.

### Syntax

```
<strike> content </strike>
```

### Discussion

The content specified by `content` is rendered with a crossbar.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later. This tag has been deprecated in the HTML 4.01 standard. The `<del>` tag is more appropriate for this function. Styles should be more finely tuned using CSS instead of using HTML style tags.

## strong

---

Specifies text as “strong” emphasized text.

### Syntax

```
<strong> content </strong>
```

### Discussion

This tag specifies a block of emphasized text. Styles should be more finely tuned using CSS instead of using HTML style tags.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## style

---

Defines an inline stylesheet.

### Syntax

```
<style type ="mimetype"> css_declarations </style>
```

### Discussion

This tag specifies a CSS stylesheet within the page. All CSS declarations should be placed within this block. This tag should be placed in the `head` section of a page. If you are linking to an external stylesheet, use the `link` element instead.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## sub

---

Specifies text as subscript.

### Syntax

```
<sub> content </sub>
```

### Discussion

The text specified by `content` is displayed in a smaller size and is subscripted, but otherwise matches the style of the enclosing element. Styles should be more finely tuned using CSS instead of using HTML style tags.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## sup

---

Specifies text as superscript.

### Syntax

```
<sup> content </sup>
```

### Discussion

The text specified by `content` is displayed in a smaller size and is superscripted, but otherwise matches the style of the enclosing element. Styles should be more finely tuned using CSS instead of using HTML style tags.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## table

---

Defines a data table.

### Syntax

```
<table> content </table>
```

### Discussion

This tag defines a table structure for a page. The HTML specified by `content` should contain the other structural elements such as table rows ( `<tr>` ) and table cells ( `<td>` ).

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## tbody

---

Defines a table's body.

### Syntax

```
<tbody> content </tbody>
```

### Discussion

This tag defines a the body for a table. It is only a structural definition and by default does not render anything unique, so the HTML specified by `content` should contain the other structural elements such as table rows ( `<tr>` ) and table cells ( `<td>` ).

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## td

---

Defines a table cell.

### Syntax

```
<td> content </td>
```

### Discussion

This tag defines a cell within a table. Cells are usually enclosed by table row ( `<tr>` ) definitions. Consecutive table cells are placed horizontally onscreen.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## textarea

---

Specifies a text area input type.

### Syntax

```
<textarea rows ="value" cols ="value"> content </select>
```

### Discussion

This tag specifies a scrollable, multi-line text input block. You can specify its size onscreen by specifying values for `rows` and `cols`.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## tfoot

---

Defines a table's footer.

### Syntax

```
<tfoot> content </tfoot>
```

### Discussion

This tag defines a footer for a table. It is only a structural definition and by default does not render anything unique, so the HTML specified by `content` should contain the other structural elements such as table rows ( `<tr>` ) and table cells ( `<td>` ).

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## th

---

Defines header text for a table column.

### Syntax

```
<th> content </th>
```

### Discussion

Table headers should be placed in their own table row, usually the first in a table definition, and should correspond in number to table cell definitions in later rows. In Safari, the text specified by `content` is displayed in a bold face.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## thead

---

Defines a table's header.

### Syntax

```
<thead> content </thead>
```

### Discussion

This tag defines a header for a table. It is only a structural definition and by default does not render anything unique, so the HTML specified by `content` should contain the other structural elements such as table rows ( `<tr>` ) and table cells ( `<td>` ).

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## title

---

Defines the visible window title for the page.

### Syntax

```
<title> content </title>
```

### Discussion

The text specified by `content` is displayed at the top of a browser window, but remains invisible in embedded WebKit web views unless requested programatically. This tag must be placed in the `head` section of a page.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## tr

---

Defines a table row.

### Syntax

```
<tr> content </tr>
```

### Discussion

This tag defines a row within a table. Table cells are usually enclosed by these rows. Consecutive table rows are placed vertically onscreen.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## tt

---

Displays text in a “teletype” style.

### Syntax

```
<tt> content </tt>
```

### Discussion

The text specified by `content` is displayed in a monospaced “teletype” style, but otherwise matches the style of the enclosing element. Styles should be more finely tuned using CSS instead of using HTML style tags.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## U

---

Deprecated. Defines a block of underlined text.

### Syntax

```
<u> content </u>
```

### Discussion

The content specified by `content` is underlined.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later. This tag has been deprecated in the HTML 4.01 standard. The `<ins>` tag is more appropriate for this function. Styles should be more finely tuned using CSS instead of using HTML style tags. Additionally, underlined text should not be used as it may be confused with actual hyperlinks.

## ul

---

Specifies an unordered list.

### Syntax

```
<ul> content </ul>
```

### Discussion

This tag specifies an unordered, bulleted list. Within the bounds of this block, list items should be defined using the `<li>` tag.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## var

---

Specifies a variable.

### Syntax

```
<var> content </var>
```

### Discussion

This tag specifies a variable. The text enclosed within the tags is italicized.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## video

---

Embeds video into a webpage.

### Syntax

```
<video src="url"
  poster="freezeimage.png"
  autoplay="autoplay" <!-- Boolean attribute. Omit to prevent autoplay. -->
  start="00:00:00.00"
  loopstart="00:00:00.07" <!-- 7 seconds -->
  loopend="00:00:00.19"
  end="00:00:00.27"
  playcount="4" <!-- play 4x -->
  controls="true"
  width="640"
```



```

    height="480"
  >

```

**Discussion**

The `video` element may contain fallback content for browsers that do not support this element. Any content enclosed within the `video` element is ignored by browsers that support the `video` element (but it must be valid HTML).

The `video` element supports inclusion of `source` elements to provide multiple versions of a video clip encoded with different codecs, at different bit rates, and so on. These `source` elements must be the first elements inside the `video` element before any fallback content. See [“source”](#) (page 42) for more information.

**Availability**

Available in Safari 3.1 and later. Available in iPhone OS 3.0 and later.

## wbr

---

Specifies a block in which line breaks are permitted.

**Syntax**

```
<wbr>content</wbr>
```

**Discussion**

Within a `<nobr>` block (in which line breaks are disabled), any content specified by `content` is permitted to use line breaks. The line breaks themselves must still be requested using the `<br>` tag.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## xmp

---

Represents a block of literal text.

**Syntax**

```
<xmp>content</xmp>
```

**Discussion**

This tag preserves the formatting of the block of text specified by `content`, specifically line breaks, multiple spaces, and the greater-than and less-than symbols that accompany HTML tags. This block is also prefaced with a newline. In Safari, text enclosed in this element is also rendered in a monospace “teletype” font. This tag is not well-supported and may cause unintended behavior in Safari; consider using the `<pre>` tag instead.

**Availability**

Available in Safari 1.0 and later. Available with limited support in iPhone OS 1.0 and later.



# Supported Attributes

---

Attributes that are supported by Safari and WebKit are described here.

## Supported Attributes

If an attribute is not listed here, it is not supported by Safari and WebKit. The “Related Tags” section of each attribute links to the elements that the attribute directly applies to. If an attribute applies to the vast majority of elements, the “Related Tags” section is omitted. Some attributes are also marked as deprecated, which means they are supported by Safari but, because they are no longer supported by the HTML specification, are not guaranteed to be supported in the future.

### abbr

---

Specifies the abbreviation for a table header cell.

**Related Tags**

[“td”](#) (page 45)

[“th”](#) (page 46)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

### accept

---

Specifies the supported MIME types for a form.

**Related Tags**

[“form”](#) (page 29)

[“input”](#) (page 32)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

### accept-charset

---

Specifies the supported character sets for a form.

**Related Tags**

[“form”](#) (page 29)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## accesskey

---

Specifies the access key for accessibility/screen reading.

**Related Tags**

- [“a”](#) (page 19)
- [“area”](#) (page 20)
- [“button”](#) (page 24)
- [“input”](#) (page 32)
- [“label”](#) (page 34)
- [“legend”](#) (page 34)
- [“textarea”](#) (page 45)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## action

---

Specifies the URL of a form processor (for example, a CGI script)

**Related Tags**

- [“form”](#) (page 29)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## align

---

Aligns inline elements within an element. Deprecated in HTML 4.01 (use CSS styling instead).

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## alink

---

Specifies the color of a currently active hyperlink. Deprecated in HTML 4.01 (use CSS styling instead).

**Related Tags**

- [“body”](#) (page 23)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## alt

---

Provides a short description of an image, area, or input type.

### Related Tags

- [“applet”](#) (page 20)
- [“area”](#) (page 20)
- [“img \(or image\)”](#) (page 32)
- [“input”](#) (page 32)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## archive

---

Specifies a comma-separated list of Java archive URLs.

### Related Tags

- [“applet”](#) (page 20)
- [“object”](#) (page 38)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## aria-checked

---

Indicates whether an ARIA-enabled element, such as a radio button or a checkbox, is selected.

### Related Tags

- [“div”](#) (page 27)
- [“span”](#) (page 43)

### Availability

Available in Safari 4.0 and later.

## aria-level

---

Indicates the hierarchical level of an ARIA-enabled structural element, such as a heading.

### Related Tags

- [“div”](#) (page 27)
- [“span”](#) (page 43)

### Availability

Available in Safari 4.0 and later.

## aria-pressed

---

Indicates the state of an ARIA-enabled toggle button.

### Related Tags

[“div”](#) (page 27)

[“span”](#) (page 43)

### Availability

Available in Safari 4.0 and later.

## aria-valuemax

---

Indicates the maximum value of an ARIA-enabled element with a range, such as a progress bar.

### Related Tags

[“div”](#) (page 27)

[“span”](#) (page 43)

### Availability

Available in Safari 4.0 and later.

## aria-valuemin

---

Indicates the minimum value of an ARIA-enabled element with a range, such as a progress bar.

### Related Tags

[“div”](#) (page 27)

[“span”](#) (page 43)

### Availability

Available in Safari 4.0 and later.

## aria-valuenow

---

Indicates the current value of an ARIA-enabled element with a range, such as a progress bar.

### Related Tags

[“div”](#) (page 27)

[“span”](#) (page 43)

### Availability

Available in Safari 4.0 and later.

## autocapitalize

---

If `off`, deactivates automatic capitalization for an input element; If `on`, activates automatic capitalization for the element.

### Related Tags

[“input”](#) (page 32)

### Availability

Available in iPhone OS 1.1.1 and later.

### Support Level

Apple extension.

## autocomplete

---

If `off`, deactivates automatic completion for an input element; If `on`, activates automatic completion for the element.

### Related Tags

[“input”](#) (page 32)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.1.1 and later.

## autocorrect

---

If `off`, deactivates automatic correction for an input element; If `on`, activates automatic correction for the element.

### Availability

Available in iPhone OS 1.1.1 and later.

### Support Level

Apple extension.

## autoplay

---

Indicates that a media element should begin playing as soon as it is loaded.

### Related Tags

[“audio”](#) (page 21)

[“video”](#) (page 48)

### Availability

Available in Safari 3.1 and later.

## autosave

---

Specifies an autosave name for a search field, so prior searches can be saved.

### Related Tags

[“input”](#) (page 32)

### Availability

Available in Safari 1.3 and later.

### Support Level

Apple extension.

## axis

---

Specifies a comma-separated list of category names for a table cell or table header cell.

### Related Tags

[“td”](#) (page 45)

[“th”](#) (page 46)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## background

---

Specifies a background image. Deprecated in HTML 4.01 (use CSS styling instead).

### Related Tags

[“body”](#) (page 23)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## behavior

---

Used for the marquee element. Can be set to `scroll` to continually scroll, `slide` to slide it to the edge and start again at the beginning, or `alternate` to scroll back and forth.

### Related Tags

[“marquee”](#) (page 36)

### Availability

Available in Safari 1.2 and later. Available in iPhone OS 1.0 and later.

## bgcolor

---

Sets the background color of an element. Deprecated in HTML 4.01 (use CSS styling instead).



### Related Tags

- [“body”](#) (page 23)
- [“table”](#) (page 45)
- [“td”](#) (page 45)
- [“th”](#) (page 46)
- [“tr”](#) (page 47)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## bgproperties

---

Sets the background style if a background image has been set. The only value available is “fixed”, which will lock the background in place as the page scrolls.

### Related Tags

- [“body”](#) (page 23)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## border

---

Sets the visible border width for a table.

### Related Tags

- [“img \(or image\)”](#) (page 32)
- [“object”](#) (page 38)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## bordercolor

---

Defines the color of a table border; has no effect in Safari.

### Related Tags

- [“table”](#) (page 45)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## cellpadding

---

Defines the pixel spacing within table cells.

### Related Tags

[“table”](#) (page 45)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## cellspacing

---

Defines the pixel spacing between cells.

### Related Tags

[“table”](#) (page 45)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## challenge

---

Provides an arbitrary string that acts as the challenge for a keygen.

### Related Tags

[“keygen”](#) (page 33)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## char

---

Defines the axis of alignment for a block of text (for example, the decimal point in an English monetary value). The default is a decimal point.

### Related Tags

[“col”](#) (page 25)

[“colgroup”](#) (page 26)

[“tbody”](#) (page 45)

[“td”](#) (page 45)

[“tfoot”](#) (page 46)

[“th”](#) (page 46)

[“thead”](#) (page 46)

[“tr”](#) (page 47)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## charoff

---

Specifies the offset to the alignment character specified by the `char` attribute.

### Related Tags

- [“col”](#) (page 25)
- [“colgroup”](#) (page 26)
- [“tbody”](#) (page 45)
- [“td”](#) (page 45)
- [“tfoot”](#) (page 46)
- [“th”](#) (page 46)
- [“thead”](#) (page 46)
- [“tr”](#) (page 47)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## charset

---

Defines the character encoding style of a given linked resource.

### Related Tags

- [“a”](#) (page 19)
- [“link”](#) (page 35)
- [“script”](#) (page 41)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## checked

---

Indicates that a checkbox element should show up as checked in a form.

### Discussion

This attribute does not require a value: its presence indicates the box is checked, its absence indicates it is not.

### Related Tags

- [“input”](#) (page 32)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## cellborder

---

Sets the width of the border of an individual table cell.

### Availability

Available in Safari 1.3 and later. Available in iPhone OS 1.0 and later.

## cite

---

Specifies the URL for the source of a citation, or a string explaining the reason for a change.

### Related Tags

[“blockquote”](#) (page 23)

[“q”](#) (page 40)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## class

---

Space-separated list of CSS classes defining the style for an element.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## classid

---

Specifies the URL of the implementation for an embedded object.

### Related Tags

[“object”](#) (page 38)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## clear

---

Specifies the flow direction of text around a line break. Deprecated in HTML 4.01 (use CSS styling instead).

### Related Tags

[“br”](#) (page 23)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## code

---

Defines the class file for an applet specified with the applet tag. Deprecated in HTML 4.01, along with the `applet` tag.

### Related Tags

[“applet”](#) (page 20)

**Availability**

Available in Safari 1.0 and later.

## codebase

---

Defines the base URL for a class ID, data file, or archive specified with the `object` tag. Deprecated in HTML 4.01 for the `applet` tag, but not for the `object` tag.

**Related Tags**

[“object”](#) (page 38)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## codetype

---

Defines the content-type for the code embedded by the `object` tag.

**Related Tags**

[“object”](#) (page 38)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## color

---

Defines the text color for font elements. Deprecated in HTML 4.01 (use CSS styling instead).

**Related Tags**

[“basefont”](#) (page 22)

[“font”](#) (page 29)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## cols

---

Defines the number of columns in a text area or frame set.

**Related Tags**

[“frameset”](#) (page 30)

[“textarea”](#) (page 45)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## colspan

---

Defines the number of columns spanned by an individual column definition.

### Related Tags

[“td”](#) (page 45)

[“th”](#) (page 46)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## compact

---

Compresses the space between elements in a list or menu. Deprecated in HTML 4.01 (use CSS styling instead).

### Related Tags

[“dir”](#) (page 27)

[“dl”](#) (page 27)

[“menu”](#) (page 36)

[“ol”](#) (page 38)

[“ul”](#) (page 48)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## composite

---

Specifies how an image gets composited onto a Dashboard widget.

### Related Tags

[“img \(or image\)”](#) (page 32)

### Availability

Available in Safari 1.3 and later. Available in iPhone OS 1.0 and later.

### Support Level

Apple extension.

## content

---

Specifies the content for a given meta key.

### Related Tags

[“meta”](#) (page 36)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## contenteditable

---

If `true`, the element can be edited on the fly; if `false`, it cannot.

### Availability

Available in Safari 1.2 and later.

## controls

---

If `true`, the media element includes controls, such as a play button; if `false`, it does not.

### Related Tags

[“audio”](#) (page 21)

[“video”](#) (page 48)

### Availability

Available in Safari 3.1 and later.

## coords

---

Specifies a comma-separated list of lengths for the area element or for client-side image maps.

### Related Tags

[“area”](#) (page 20)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## data

---

Specifies a URL to data required by an embedded object element.

### Related Tags

[“object”](#) (page 38)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## datetime

---

Specifies the date and time of a change.

### Discussion

Used for the `del` and `ins` elements. Uses the ISO date format.

### Related Tags

[“del”](#) (page 26)

[“ins”](#) (page 32)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## declare

---

Added alone to an object element’s definition. Tells the object to declare but not instantiate itself.

**Related Tags**

[“object”](#) (page 38)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## defer

---

Added alone to a script element’s definition. Tells the script to defer execution.

**Related Tags**

[“script”](#) (page 41)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## dir

---

Specifies the direction (ltr/rtl) of text within an element.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## direction

---

Specifies the scrolling direction for the marquee element. Can be set to “left” or “right”.

**Related Tags**

[“marquee”](#) (page 36)

**Availability**

Available in Safari 1.2 and later. Available in iPhone OS 1.0 and later.

## disabled

---

Added alone to an input type’s definition. Disables (greys out) the element.



### Related Tags

- [“button”](#) (page 24)
- [“input”](#) (page 32)
- [“optgroup”](#) (page 39)
- [“option”](#) (page 39)
- [“select”](#) (page 42)
- [“textarea”](#) (page 45)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## enctype

---

Defines the MIME content encoding type for a form.

### Related Tags

- [“form”](#) (page 29)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## end

---

Specifies the time at which an audio or video element will stop playing. If this attribute is not specified, the media element will play to completion.

### Related Tags

- [“audio”](#) (page 21)
- [“video”](#) (page 48)

### Availability

Available in Safari 3.1 and later.

## face

---

Comma-separated list of font names. Deprecated in HTML 4.01 (use CSS styling instead).

### Related Tags

- [“basefont”](#) (page 22)
- [“font”](#) (page 29)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## for

---

Specifies the identifier of the control the label is relevant to.

### Related Tags

[“label”](#) (page 34)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## frame

---

Specifies which sides of a table frame should be shown.

### Discussion

Possible values are: `void` (none), `above`, `below`, `hsides` (top and bottom), `vsides` (right and left), `rhs` (right hand side), `lhs` (left hand side), `box` (all four sides), and `border` (all four sides).

### Related Tags

[“table”](#) (page 45)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## frameborder

---

Specifies whether or not to display a frameborder. Can be set to “1” or “0”.

### Related Tags

[“frame”](#) (page 30)

[“iframe”](#) (page 32)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## headers

---

Specifies a space-separated list of identifiers of table header cells.

### Related Tags

[“td”](#) (page 45)

[“th”](#) (page 46)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## height

---

Specifies the height of the element. Deprecated in HTML 4.01 for applets and table elements.

### Related Tags

- [“applet”](#) (page 20)
- [“iframe”](#) (page 32)
- [“img \(or image\)”](#) (page 32)
- [“object”](#) (page 38)
- [“td”](#) (page 45)
- [“th”](#) (page 46)
- [“video”](#) (page 48)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## hidden

---

If `true`, the embedded object is hidden onscreen; if `false`, it is not.

### Related Tags

- [“embed”](#) (page 28)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## href

---

Specifies the URL for any kind of link or area definition.

### Related Tags

- [“a”](#) (page 19)
- [“area”](#) (page 20)
- [“base”](#) (page 22)
- [“link”](#) (page 35)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## hreflang

---

Specifies the language of the resource linked to by the element’s `href` attribute.

### Related Tags

- [“a”](#) (page 19)
- [“link”](#) (page 35)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## hspace

---

Specifies the pixel size of the horizontal spacing surrounding the element. Deprecated in HTML 4.01 (use CSS styling instead).

### Related Tags

- [“applet”](#) (page 20)
- [“img \(or image\)”](#) (page 32)
- [“object”](#) (page 38)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## http-equiv

---

Used in the `meta` element. Contains some kind of information about the header of the page.

### Related Tags

- [“meta”](#) (page 36)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## id

---

Specifies a unique identifier for an element.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## incremental

---

Specifies whether or not the “search” input type should perform the search as the user is typing.

### Related Tags

- [“input”](#) (page 32)

### Availability

Available in Safari 1.3 and later.

### Support Level

Apple extension.

## ismap

---

Added alone to an image or input element. Indicate that the element corresponds to a server-side image map.

### Related Tags

[“img \(or image\)”](#) (page 32)

[“input”](#) (page 32)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## keytype

---

Specifies the key type for the `keygen` element. Can be set to RSA or DSA.

### Related Tags

[“keygen”](#) (page 33)

### Availability

Available in Safari 1.2 and later. Available in iPhone OS 1.0 and later.

## label

---

Specifies the label for options or option groups within a pull-down menu.

### Related Tags

[“optgroup”](#) (page 39)

[“option”](#) (page 39)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## lang

---

Specifies the base language for the element’s attributes and textual content. Values are standard two-letter language codes.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## language

---

Specifies the language of a `script` element. Deprecated in HTML 4.01.

### Related Tags

[“script”](#) (page 41)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## leftmargin

---

Used in the `body` element. Specifies the left margin of the page content.

### Related Tags

[“body”](#) (page 23)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## link

---

Color of an unvisited hyperlink. Deprecated in HTML 4.01 (use CSS styling instead).

### Related Tags

[“link”](#) (page 35)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## longdesc

---

Long textual description for images and frames. Augments the `alt` attribute for an element.

### Related Tags

[“frame”](#) (page 30)

[“iframe”](#) (page 32)

[“img \(or image\)”](#) (page 32)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## loop

---

Specifies the number of times a media element (movie or sound) will loop. Also specifies the number of times a marquee element will loop.

### Related Tags

[“embed”](#) (page 28)

[“marquee”](#) (page 36)

[“object”](#) (page 38)

### Availability

Available in Safari 1.2 and later. Available in iPhone OS 1.0 and later.

## loopend

---

Specifies the time at which an audio or video element will loop back to the time specified by the `loopstart` attribute.

### Discussion

Looping occurs only if the `playcount` attribute for the element is set to a value higher than 1. By default, the value for this attribute is equal to the value for the `end` attribute.

### Related Tags

[“audio”](#) (page 21)

[“video”](#) (page 48)

### Availability

Available in Safari 3.1 and later.

## loopstart

---

Specifies the time to which an audio or video element will return when it loops.

### Discussion

Looping occurs only if the `playcount` attribute for the element is set to a value higher than 1. By default, the value for this attribute is equal to the value for the `start` attribute.

### Related Tags

[“audio”](#) (page 21)

[“video”](#) (page 48)

### Availability

Available in Safari 3.1 and later.

## manifest

---

Specifies the relative path to the application cache manifest file that specifies the resources—such as HTML, JavaScript, CSS, and image files—to download and store in the application cache.

### Related Tags

[“html”](#) (page 31)

### Availability

Available in Safari 4.0 and later. Available in iPhone OS 2.2 and later.

## marginheight

---

Specifies the height of the margins in a frame.

### Related Tags

[“frame”](#) (page 30)

[“iframe”](#) (page 32)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## marginwidth

---

Specifies the width of the margins in a frame.

**Related Tags**

[“frame”](#) (page 30)

[“iframe”](#) (page 32)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## max

---

Same as the `maxLength` attribute.

**Related Tags**

[“input”](#) (page 32)

**Availability**

Available in Safari 1.3 and later. Available in iPhone OS 1.0 and later.

## maxlength

---

Specifies the maximum input length for a text input field in characters.

**Related Tags**

[“input”](#) (page 32)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## mayscript

---

Added alone to an applet element’s definition. Tells the script to allow the applet access to the JavaScript scripting objects.

**Related Tags**

[“applet”](#) (page 20)

**Availability**

Available in Safari 1.2 and later. Available in iPhone OS 1.0 and later.



## media

---

Defines the media type that the element is designed for.

### Discussion

The default value is `screen`, but the attribute can also be set to `tty` for a fixed-pitch device, `tv` for low-resolution televisions, `projection` for projectors, `handheld` for handheld devices, `print` for printed material, `braille` for braille devices, `aural` for speech synthesizers, or `all` for all devices.

The `media` attribute supports all media queries supported by the `@media` CSS rule.

### Related Tags

[“link”](#) (page 35)

[“source”](#) (page 42)

[“style”](#) (page 44)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## method

---

Specifies the form submission method, either `POST` or `GET`.

### Related Tags

[“form”](#) (page 29)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## min

---

Specifies the minimum input length for a text field.

### Related Tags

[“input”](#) (page 32)

### Availability

Available in Safari 1.3 and later. Available in iPhone OS 1.0 and later.

## multiple

---

Added alone to a `select` element’s definition. If present, the element will permit multiple selections.

### Related Tags

[“select”](#) (page 42)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## name

---

Specifies the name of the element, which can be used in a variety of ways.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## nohref

---

Added alone to an `area` element's definition. If present, the area has no particular action assigned to it.

### Related Tags

[“area”](#) (page 20)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## noresize

---

Added alone to a `frame` element's definition. If present, the frames cannot be resized.

### Related Tags

[“frame”](#) (page 30)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## nosave

---

Legacy attribute. Has no effect in Safari.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## noshade

---

Added alone to an `hr` element's definition. If present, the rule is drawn as a single line and not as a “groove.”  
Deprecated in HTML 4.01 (use CSS styling instead).

### Related Tags

[“hr”](#) (page 31)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## nowrap

---

Added alone to a table cell's definition. Suppresses word wrap if present. Deprecated in HTML 4.01 (use CSS styling instead).

**Related Tags**

[“td”](#) (page 45)

[“th”](#) (page 46)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## object

---

Specifies the URL of a serialized applet in an `applet` element. Deprecated in HTML 4.01 along with the `applet` element.

**Related Tags**

[“applet”](#) (page 20)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## onabort

---

JavaScript delegate. The code specified by this attribute is called when the image element it is assigned to is aborted during load.

**Related Tags**

[“img \(or image\)”](#) (page 32)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## onbeforecopy

---

JavaScript delegate. The code specified by this attribute is called before the associated element is copied.

**Availability**

Available in Safari 1.3 and later.

## onbeforecut

---

JavaScript delegate. The code specified by this attribute is called before the associated element is cut.

**Availability**

Available in Safari 1.3 and later.

## onbeforepaste

---

JavaScript delegate. The code specified by this attribute is called before the associated element has something pasted into it.

**Availability**

Available in Safari 1.3 and later.

## onbeforeunload

---

JavaScript delegate. The code specified by this attribute is called before the associated element is unloaded from the page.

**Availability**

Available in Safari 1.3 and later.

## onblur

---

JavaScript delegate. The code specified by this attribute is called when the associated element loses focus.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## onchange

---

JavaScript delegate. The code specified by this attribute is called when the associated element changes its value.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## onclick

---

JavaScript delegate. The code specified by this attribute is called when the associated element is clicked.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## oncontextmenu

---

JavaScript delegate. The code specified by this attribute is called when the associated element is right-clicked or when the mouse button is held down long enough to generate a contextual menu.

**Availability**

Available in Safari 1.1 and later.

## oncopy

---

JavaScript delegate. The code specified by this attribute is called when the associated element is copied.

**Availability**

Available in Safari 1.3 and later.

## oncut

---

JavaScript delegate. The code specified by this attribute is called when the associated element is cut.

**Availability**

Available in Safari 1.3 and later.

## ondblclick

---

JavaScript delegate. The code specified by this attribute is called when the associated element is double-clicked.

**Availability**

Available in Safari 1.0 and later.

## ondrag

---

JavaScript delegate. The code specified by this attribute is called when the associated element is dragged.

**Availability**

Available in Safari 1.3 and later.

## ondragend

---

JavaScript delegate. The code specified by this attribute is called when the associated element is done being dragged.

**Availability**

Available in Safari 1.3 and later.

## ondragenter

---

JavaScript delegate. The code specified by this attribute is called when a drag has entered the associated element.

**Availability**

Available in Safari 1.3 and later.

## ondragleave

---

JavaScript delegate. The code specified by this attribute is called when a drag has left the associated element.

**Availability**

Available in Safari 1.3 and later.

## ondragover

---

JavaScript delegate. The code specified by this attribute is called when a drag is over the associated element.

**Availability**

Available in Safari 1.3 and later.

## ondragstart

---

JavaScript delegate. The code specified by this attribute is called when the associated element has started to be dragged.

**Availability**

Available in Safari 1.3 and later.

## ondrop

---

JavaScript delegate. The code specified by this attribute is called when the associated element is dropped.

**Availability**

Available in Safari 1.3 and later.

## onerror

---

JavaScript delegate. The code specified by this attribute is called when the associated element has an error in loading.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## onfocus

---

JavaScript delegate. The code specified by this attribute is called when the associated element gets focus.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## ongesturechange

---

Specifies the JavaScript method to invoke when fingers are moved during a gesture.

**Availability**

Available in iPhone OS 2.0 and later.

**Support Level**

Apple extension.

## ongestureend

---

Specifies the JavaScript method to invoke when the gesture ends (when there are 1 or 0 fingers touching the surface).

**Availability**

Available in iPhone OS 2.0 and later.

**Support Level**

Apple extension.

## ongesturestart

---

Specifies the JavaScript method to invoke when two or more fingers touch the surface.

**Availability**

Available in iPhone OS 2.0 and later.

**Support Level**

Apple extension.

## oninput

---

JavaScript delegate. The code specified by this attribute is called when text is entered into the associated element.

**Availability**

Available in Safari 1.3 and later. Available in iPhone OS 1.0 and later.

## onkeydown

---

JavaScript delegate. The code specified by this attribute is called when a key is pressed over the associated element.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## onkeypress

---

JavaScript delegate. The code specified by this attribute is called when a key is pressed and released over the associated element.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## onkeyup

---

JavaScript delegate. The code specified by this attribute is called when a key is released over the associated element.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## onload

---

JavaScript delegate. The code specified by this attribute is called when the associated element finishes loading.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## onmousedown

---

JavaScript delegate. The code specified by this attribute is called when the mouse button is pressed over the associated element.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## onmousemove

---

JavaScript delegate. The code specified by this attribute is called when a key is moved within the associated element.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.



## onmouseout

---

JavaScript delegate. The code specified by this attribute is called when the mouse leaves the associated element.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## onmouseover

---

JavaScript delegate. The code specified by this attribute is called when the mouse is over the associated element.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## onmouseup

---

JavaScript delegate. The code specified by this attribute is called when the mouse button is released over the associated element.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## onmousewheel

---

JavaScript delegate. The code specified by this attribute is called when the mouse wheel button is rotated.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## onorientationchange

---

The JavaScript method to invoke when the orientation of the device changes.

**Availability**

Available in iPhone OS 1.1.1 and later.

## onpaste

---

JavaScript delegate. The code specified by this attribute is called when the associated element is pasted.

**Availability**

Available in Safari 1.3 and later.

## onreset

---

JavaScript delegate. The code specified by this attribute is called when the associated form element is reset.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## onresize

---

JavaScript delegate. The code specified by this attribute is called when the associated element is resized.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## onscroll

---

JavaScript delegate. The code specified by this attribute is called when the associated element is scrolled (a text box would use this, for example).

### Availability

Available in Safari 1.2 and later. Available in iPhone OS 1.0 and later.

## onsearch

---

JavaScript delegate for the search input type. The code specified by this attribute is called when a search is performed.

### Availability

Available in Safari 1.3 and later.

### Support Level

Apple extension.

## onselect

---

JavaScript delegate. The code specified by this attribute is called when text within the associated element is selected.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## onselectstart

---

JavaScript delegate. The code specified by this attribute is called when the associated element begins to be selected. You can use this to prevent selections.

**Availability**

Available in Safari 1.3 and later.

## onsubmit

---

JavaScript delegate. The code specified by this attribute is called when the associated form element is submitted.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## ontouchcancel

---

Specifies the JavaScript method to invoke when the system cancels tracking for the touch.

**Availability**

Available in iPhone OS 2.0 and later.

**Support Level**

Apple extension.

## ontouchend

---

Specifies the JavaScript method to invoke when a given event lifts from the surface.

**Availability**

Available in iPhone OS 2.0 and later.

**Support Level**

Apple extension.

## ontouchmove

---

Specifies the JavaScript method to invoke when a finger for a given event moves on the surface.

**Availability**

Available in iPhone OS 2.0 and later.

**Support Level**

Apple extension.

## ontouchstart

---

Specifies the JavaScript method to invoke when a finger for a given event touches the surface.

**Availability**

Available in iPhone OS 2.0 and later.

### Support Level

Apple extension.

## onunload

---

JavaScript delegate. The code specified by this attribute is called when the associated element is unloaded from the page.

### Availability

Available in iPhone OS 2.1 and later.

## oversrc

---

Specifies the source of an image to be displayed when the mouse is over an element. Useful for rollovers.

### Related Tags

[“img \(or image\)”](#) (page 32)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## placeholder

---

Specifies the placeholder text displayed in light grey when the search input field is not currently in use.

### Related Tags

[“input”](#) (page 32)

### Availability

Available in Safari 1.3 and later. Available in iPhone OS 1.0 and later.

### Support Level

Apple extension.

## playcount

---

Specifies the number of times an audio or video element will loop. The default value is 1, meaning the element will play only once.

### Related Tags

[“audio”](#) (page 21)

[“video”](#) (page 48)

### Availability

Available in Safari 3.1 and later. Available in iPhone OS 1.0 and later.

## pluginpage

---

Specifies the URL of the page where visitors can find the plug-in required to display content embedded with the `embed` element. This has been deprecated along with the `embed` element.

### Related Tags

[“embed”](#) (page 28)

### Availability

Available in Safari 1.0 and later. Available with limited support in iPhone OS 1.0 and later.

## pluginspage

---

Same as the `pluginpage` attribute.

### Related Tags

[“embed”](#) (page 28)

### Availability

Available in Safari 1.0 and later. Available with limited support in iPhone OS 1.0 and later.

## pluginurl

---

Same as the `pluginspage` attribute, except it links directly to the plug-in itself (in Java archive format).

### Related Tags

[“embed”](#) (page 28)

### Availability

Available in Safari 1.0 and later. Available with limited support in iPhone OS 1.0 and later.

## poster

---

Specifies the URL for an image to display while a video element is loading.

### Related Tags

[“video”](#) (page 48)

### Availability

Available in Safari 3.1 and later. Available with limited support in iPhone OS 1.0 and later.

## precision

---

### Availability

Available in Safari 1.3 and later. Available in iPhone OS 1.0 and later.

## profile

---

Specifies the URL to a file of meta data or a list of said files.

### Related Tags

[“head”](#) (page 30)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## prompt

---

Specifies the textual prompt for the `isindex` element. Deprecated in HTML 4.01.

### Related Tags

[“isindex”](#) (page 33)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## readonly

---

Added alone to a `textarea`'s definition. If present, the `textarea` will not be editable.

### Related Tags

[“textarea”](#) (page 45)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## rel

---

Defines a relationship to another document. The URL specified by this property relates to this document by `rel`. In other words, it is the next-order relation.

### Related Tags

[“a”](#) (page 19)

[“link”](#) (page 35)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## results

---

Specifies how many results should be returned by the search input type.

### Related Tags

[“input”](#) (page 32)

### Availability

Available in Safari 1.3 and later.

### Support Level

Apple extension.

## rev

---

Defines a relationship to another document. This document relates to the URL specified by this property as rev. In other words, it is the reverse-order relation.

### Related Tags

[“a”](#) (page 19)

[“link”](#) (page 35)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## role

---

Defines the WAI-ARIA accessibility role of a `div` or `span` element. See [“Supported Accessibility Roles”](#) (page 105) for more information.

### Related Tags

[“div”](#) (page 27)

[“span”](#) (page 43)

### Availability

Available in Safari 4.0 and later.

## rows

---

Defines the number of rows in a `textarea` or `frameset`.

### Related Tags

[“frameset”](#) (page 30)

[“textarea”](#) (page 45)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## rowspan

---

Defines the number of rows spanned by an individual row definition.

### Related Tags

[“td”](#) (page 45)

[“th”](#) (page 46)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## rules

---

Specifies which rulings to show for a table element. Its potential values are `none`, `groups`, `rows`, `cols`, and `all`.

### Related Tags

[“table”](#) (page 45)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## scheme

---

Defines the scheme to be used to interpret a meta value.

### Related Tags

[“meta”](#) (page 36)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## scope

---

Specifies the scope handled by a table’s header cells. Possible values are `row`, `col`, `rowgroup`, and `colgroup`.

### Related Tags

[“td”](#) (page 45)

[“th”](#) (page 46)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## scrollamount

---

Specifies the number of pixels that a marquee element will scroll between successive redraws of its onscreen view.

### Related Tags

[“marquee”](#) (page 36)



### Availability

Available in Safari 1.2 and later. Available in iPhone OS 1.0 and later.

## scrolldelay

---

Specifies the number of milliseconds that a marquee element will delay between successive redraws of its onscreen view.

### Related Tags

[“marquee”](#) (page 36)

### Availability

Available in Safari 1.2 and later. Available in iPhone OS 1.0 and later.

## scrolling

---

Specifies whether or not a frame or iframe element should have scrollbars.

### Discussion

Setting this property to `yes` will always show the scrollbars, `no` will never show the scrollbars, and `auto` will show the scrollbars only if the content needs to scroll (this is the default).

### Related Tags

[“frame”](#) (page 30)

[“iframe”](#) (page 32)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## selected

---

Added alone to an `option` definition. If present, the option with this property is selected in the list.

### Related Tags

[“option”](#) (page 39)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## shape

---

Defines the shape of an area element or a client-side image map. Can take the form of `default`, `rect`, `circle`, or `poly`.

### Related Tags

[“a”](#) (page 19)

[“area”](#) (page 20)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## size

---

Defines the physical size of a variety of inputs and fonts. Deprecated in HTML 4.01 (use CSS styling instead).

### Related Tags

[“basefont”](#) (page 22)

[“font”](#) (page 29)

[“hr”](#) (page 31)

[“input”](#) (page 32)

[“select”](#) (page 42)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## span

---

Specifies the number of columns that a given `col` or `colgroup` definition will span.

### Related Tags

[“col”](#) (page 25)

[“colgroup”](#) (page 26)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## src

---

Specifies a URL for an external file or resource.

### Related Tags

[“audio”](#) (page 21)

[“frame”](#) (page 30)

[“iframe”](#) (page 32)

[“img \(or image\)”](#) (page 32)

[“input”](#) (page 32)

[“script”](#) (page 41)

[“video”](#) (page 48)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## standby

---

Defines a message to show while an object is being loaded within an `object` definition.

### Related Tags

[“object”](#) (page 38)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## start

---

Specifies the time at which an audio or video element starts playing. By default, the element starts at the beginning.

Also defines the starting sequence number for an ordered list. This functionality is deprecated in HTML 4.01 (use CSS styling instead).

### Related Tags

[“audio”](#) (page 21)

[“ol”](#) (page 38)

[“video”](#) (page 48)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## style

---

Specifies CSS style information for the element. The style definitions are placed inline with this property. To specify external styles (defined in external files or in a `style` element), use the `class` property.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## summary

---

Specifies a textual summary for a table of data.

### Related Tags

[“table”](#) (page 45)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## tabindex

---

Specifies the tab index for a hyperlink or input element. Can range from 0 to 32767. As a user tabs through a page, the focus will follow this tabbing order.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## tableborder

---

Specifies the width of a table's border. You should use CSS styling to define this property instead.

**Related Tags**

[“table”](#) (page 45)

**Availability**

Available in Safari 1.3 and later. Available in iPhone OS 1.0 and later.

## target

---

Defines the target window for a hyperlink. You can specify any target definition, but the following values are built-in: “\_blank” will load the clicked URL into a new, unnamed window; “\_self” will load in the same frame that was clicked; “\_parent” will load into the parent frame of the frame that was clicked; “\_top” will load the document into the original window, eliminating any existing frameset.

**Related Tags**

[“a”](#) (page 19)

[“area”](#) (page 20)

[“base”](#) (page 22)

[“form”](#) (page 29)

[“link”](#) (page 35)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## text

---

Defines the page-wide text color in the body element. Deprecated in HTML 4.01 (use CSS styling instead).

**Related Tags**

[“body”](#) (page 23)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## title

---

Defines a title for the associated element. In Safari, this will display a tool tip for the element with this value.

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## topmargin

---

Specifies the top margin of the page content.

### Related Tags

[“body”](#) (page 23)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## truespeed

---

Specifies whether or not a marquee operates at the true speed specified by its parameters. The default behavior will constrain the speed to certain minimum values of scroll delay and scroll amount.

### Related Tags

[“marquee”](#) (page 36)

### Availability

Available in Safari 1.2 and later. Available in iPhone OS 1.0 and later.

## type

---

Defines a textual content type for elements like scripts and objects, and input types for the input element. See the input types table below for possible values.

### Related Tags

[“a”](#) (page 19)

[“button”](#) (page 24)

[“input”](#) (page 32)

[“li”](#) (page 35)

[“link”](#) (page 35)

[“object”](#) (page 38)

[“ol”](#) (page 38)

[“param”](#) (page 39)

[“script”](#) (page 41)

[“style”](#) (page 44)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## usemap

---

Specifies the URL for an image map on a document. Usually this is an anchor (for example, “#myMap”) defined as a map element on the page.

### Related Tags

- “img (or image)” (page 32)
- “input” (page 32)
- “object” (page 38)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## valign

---

Specifies vertical alignment within a column or table element definition.

### Related Tags

- “col” (page 25)
- “colgroup” (page 26)
- “tbody” (page 45)
- “td” (page 45)
- “tfoot” (page 46)
- “th” (page 46)
- “thead” (page 46)
- “tr” (page 47)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## value

---

Specifies the current value for an input type. For those elements that can display their values (such as text fields), they will display this value onscreen. Otherwise the values are all available as form values when submitted.

### Related Tags

- “button” (page 24)
- “input” (page 32)
- “li” (page 35)
- “option” (page 39)
- “param” (page 39)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## valuetype

---

Specifies the value type for a `param` element within an object definition. Can be `data` if the value is evaluated and passed as a string, `ref` if the value is a URL and is unevaluated when passed, or `object` if the value is an identifier that refers to an object definition.

**Related Tags**

[“param”](#) (page 39)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## version

---

Specifies the version of the HTML DTD used to verify the document. Deprecated in HTML 4.01, use DOCTYPE declarations instead.

**Related Tags**

[“html”](#) (page 31)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## vlink

---

Color of an already-visited hyperlink. Deprecated in HTML 4.01 (use CSS styling instead).

**Related Tags**

[“body”](#) (page 23)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## vspace

---

Specifies the pixel size of the vertical spacing surrounding the element. Deprecated in HTML 4.01 (use CSS styling instead).

**Related Tags**

[“applet”](#) (page 20)

[“img \(or image\)”](#) (page 32)

[“object”](#) (page 38)

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## webkit-playsinline

---

Indicates that a video element should play in-line instead of full-screen. Available in iAd JS only.

### Related Tags

[“video”](#) (page 48)

### Availability

Available in iAd JS 1.1 and later.

## width

---

Specifies the height of the element. Deprecated in HTML 4.01 for applets and table elements.

### Related Tags

[“applet”](#) (page 20)

[“iframe”](#) (page 32)

[“img \(or image\)”](#) (page 32)

[“object”](#) (page 38)

[“td”](#) (page 45)

[“th”](#) (page 46)

[“video”](#) (page 48)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## wrap

---

Defines the wrap style for a textarea. Can be set to `soft` to wrap without outputting carriage returns to the field, `hard` to wrap with outputting carriage returns, and `off` to not wrap at all.

### Related Tags

[“textarea”](#) (page 45)

### Availability

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.



# Supported Input Values

---

Supported values for the `input` tag are described here.

## Input Type Values

Safari supports many different input types. They can be specified using the `type` attribute of the `input` element. These input types are listed below.

### button

---

A button input type. More versatile than a submit button.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

### checkbox

---

A standard checkbox.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

### email

---

A text field for specifying an email address. Brings up a keyboard optimized for email address entry in iPhone OS 3.1 and later.

**Availability**

Available in iPhone OS 3.1 and later.

### file

---

A file upload interface.

**Availability**

Available in Safari 1.0 and later.

## hidden

---

A hidden input type (to store values without showing them on the page). Note that the input can still be seen in the page source.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## image

---

An image that acts as an input.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## number

---

A text field for specifying a number. Brings up a number pad keyboard in iPhone OS 3.1 and later. Specifying an input type of `\d*` or `[0-9]*` is equivalent to using this type.

**Availability**

Available in iPhone OS 3.1 and later.

## password

---

A visually-shielded password field.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## radio

---

A radio button.

**Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## range

---

A slider. Its minimum value should be set with the `min` attribute, its maximum value should be set with `max`, and its discrete step size should be set with `step`.

**Availability**

Available in Safari 2.0 and later.

### **Support Level**

Apple extension.

## reset

---

A reset button for a form.

### **Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## search

---

A search field. Uses the “[onsearch](#)” (page 82), “[incremental](#)” (page 68), “[placeholder](#)” (page 84), “[autosave](#)” (page 56), and “[results](#)” (page 86) attributes in addition to standard HTML attributes.

### **Availability**

Available in Safari 2.0 and later.

### **Support Level**

Apple extension.

## submit

---

A submission button for a form.

### **Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## tel

---

A text field for specifying a phone number. Brings up a phone pad keyboard in iPhone OS 3.1 and later.

### **Availability**

Available in iPhone OS 3.1 and later.

## text

---

A standard text field.

### **Availability**

Available in Safari 1.0 and later. Available in iPhone OS 1.0 and later.

## url

---

A text field for specifying a URL. Brings up a keyboard optimized for URL entry in iPhone OS 3.1 and later.

### **Availability**

Available in iPhone OS 3.1 and later.

# Supported Meta Tags

---

Apple-specific meta tags are described here.

## Apple-Specific Meta Tag Keys

### apple-mobile-web-app-capable

---

Sets whether a web application runs in full-screen mode.

#### Syntax

```
<meta name="apple-mobile-web-app-capable" content="yes">
```

#### Discussion

If `content` is set to `yes`, the web application runs in full-screen mode; otherwise, it does not. The default behavior is to use Safari to display web content.

You can determine whether a webpage is displayed in full-screen mode using the `window.navigator.standalone` read-only Boolean JavaScript property.

#### Availability

Available in iPhone OS 2.1 and later.

#### Support Level

Apple extension.

### apple-mobile-web-app-status-bar-style

---

Sets the style of the status bar for a web application.

#### Syntax

```
<meta name="apple-mobile-web-app-status-bar-style" content="black">
```

#### Discussion

This meta tag has no effect unless you first specify full-screen mode as described in [“url”](#) (page 100).

If `content` is set to `default`, the status bar appears normal. If set to `black`, the status bar has a black background. If set to `black-translucent`, the status bar is black and translucent. If set to `default` or `black`, the web content is displayed below the status bar. If set to `black-translucent`, the web content is displayed on the entire screen, partially obscured by the status bar. The default value is `default`.

#### Availability

Available in iPhone OS 2.1 and later.

**Support Level**

Apple extension.

## format-detection

---

Enables or disables automatic detection of possible phone numbers in a webpage in Safari on iPhone.

**Syntax**

```
<meta name="format-detection" content="telephone=no">
```

**Discussion**

By default, Safari on iPhone detects any string formatted like a phone number and makes it a link that calls the number. Specifying `telephone=no` disables this feature.

**Availability**

Available in iPhone OS 1.0 and later.

**Support Level**

Apple extension.

## viewport

---

Changes the logical window size used when displaying a page on iPhone.

**Syntax**

```
<meta name = "viewport" content = "width = 320,
    initial-scale = 2.3, user-scalable = no">
```

**Discussion**

Use the viewport meta key to improve the presentation of your web content on iPhone. Typically, you use the viewport meta tag to set the width and initial scale of the viewport.

For example, if your webpage is narrower than 980 pixels, then you should set the width of the viewport to fit your web content. If you are designing an iPhone-specific web application, you should set the width to the width of the device.

[“email”](#) (page 97) describes the properties supported by the viewport meta key and their default values. When providing multiple properties for the viewport meta key, you should use a comma-delimited list of assignment statements.

When referring to the dimensions of a device, you should use the constants described in [“number”](#) (page 98) instead of hard-coding specific numeric values. For example, use `device-width` instead of 320 for the width, and `device-height` instead of 480 for the height in portrait orientation.

You do not need to set every viewport property. If only a subset of the properties are set, then Safari on iPhone infers the other values. For example, if you set the scale to 1.0, Safari assumes the width is `device-width` in portrait and `device-height` in landscape orientation. Therefore, if you want the width to be 980 pixels and the initial scale to be 1.0, then set both of these properties.

For example, to set the viewport width to the width of the device, add this to your HTML file:

```
<meta name = "viewport" content = "width = device-width">
```

To set the initial scale to 1.0, add this to your HTML file:

```
<meta name = "viewport" content = "initial-scale = 1.0">
```

To set the initial scale and to turn off user scaling, add this to your HTML file:

```
<meta name = "viewport" content = "initial-scale = 2.3, user-scalable = no">
```

Use the Safari on iPhone console to help debug your webpages as described in “Debugging”. The console contains tips to help you choose viewport values—for example, it reminds you to use the constants when referring to the device width and height.

#### Availability

Available in iPhone OS 1.0 and later.

#### Support Level

Apple extension.

**Table 1** Viewport properties

Property	Description
width	The width of the viewport in pixels. The default is 980. The range is from 200 to 10,000. You can also set this property to the constants described in “number” (page 98). Available on iPhone OS 1.0 and later.
height	The height of the viewport in pixels. The default is calculated based on the value of the width property and the aspect ratio of the device. The range is from 223 to 10,000 pixels. You can also set this property to the constants described in “number” (page 98). Available on iPhone OS 1.0 and later.
initial-scale	The initial scale of the viewport as a multiplier. The default is calculated to fit the webpage in the visible area. The range is determined by the <code>minimum-scale</code> and <code>maximum-scale</code> properties. You can set only the initial scale of the viewport—the scale of the viewport the first time the webpage is displayed. Thereafter, the user can zoom in and out unless you set <code>user-scalable</code> to <code>no</code> . Zooming by the user is also limited by the <code>minimum-scale</code> and <code>maximum-scale</code> properties. Available on iPhone OS 1.0 and later.
minimum-scale	Specifies the minimum scale value of the viewport. The default is 0.25. The range is from >0 to 10.0. Available on iPhone OS 1.0 and later.
maximum-scale	Specifies the maximum scale value of the viewport. The default is 1.6. The range is from >0 to 10.0. Available on iPhone OS 1.0 and later.
user-scalable	Determines whether or not the user can zoom in and out—whether or not the user can change the scale of the viewport. Set to <code>yes</code> to allow scaling and <code>no</code> to disallow scaling. The default is <code>yes</code> . Setting <code>user-scalable</code> to <code>no</code> also prevents a webpage from scrolling when entering text in an input field. Available on iPhone OS 1.0 and later.

**Table 2** Special viewport property values

Value	Description
device-width	The width of the device in pixels. Available on iPhone OS 1.1.1 and later.
device-height	The height of the device pixels. Available on iPhone OS 1.1.1 and later.



# Supported Accessibility Roles

---

Accessibility roles from the WAI-ARIA specification that are supported in Safari are described here.

## Accessibility Roles

WebKit now has elementary support for the WAI-ARIA specification. Developers can assign a value to the `role` attribute of a `div` or `span` element, indicating the purpose of a custom interface element on a webpage. This enables accessibility utilities to interact with these elements as they would with standard inputs and menus. The following example shows an image that is recognized by accessibility utilities as a button:

```
<div role="button" tabindex="0" onkeydown="return buttonEvent(event);"
onclick="return buttonEvent(event);">
  <img src='myimage.jpg'>
</div>
```

More information on the WAI-ARIA specification can be found at <http://www.w3.org/TR/wai-aria/>.

### button

---

A standard button.

**Availability**

Available in Safari 4.0 and later.

### checkbox

---

A standard checkbox.

**Availability**

Available in Safari 4.0 and later.

### group

---

A group of elements that should not be included individually in a page summary or table of contents.

**Availability**

Available in Safari 4.0 and later.

## heading

---

The heading for a section of a page.

**Availability**

Available in Safari 4.0 and later.

## img

---

A collection of elements that compose an image.

**Availability**

Available in Safari 4.0 and later.

## link

---

A hyperlink.

**Availability**

Available in Safari 4.0 and later.

## listbox

---

A dropdown list of options.

**Availability**

Available in Safari 4.0 and later.

## listitem

---

A list item.

**Availability**

Available in Safari 4.0 and later.

## menu

---

A standard menu.

**Availability**

Available in Safari 4.0 and later.

## menubar

---

A container of menus.

**Availability**

Available in Safari 4.0 and later.

## menuitem

---

An option in a menu.

**Availability**

Available in Safari 4.0 and later.

## menuitemcheckbox

---

A checkable menu item.

**Availability**

Available in Safari 4.0 and later.

## menuitemradio

---

A radio button menu item in a group of mutually exclusive choices.

**Availability**

Available in Safari 4.0 and later.

## option

---

An item in a dropdown list.

**Availability**

Available in Safari 4.0 and later.

## progressbar

---

A visual indicator of the progress of a task.

**Availability**

Available in Safari 4.0 and later.

## radio

---

A radio button in a group of mutually exclusive choices.

**Availability**

Available in Safari 4.0 and later.

## textbox

---

A text input field.

**Availability**

Available in Safari 4.0 and later.

# Document Revision History

---

This table describes the changes to *Safari HTML Reference*.

Date	Notes
2010-08-03	Added the <code>webkit-playsinline</code> HTML attribute.
2010-05-07	Added a link to the HTML5 specification.
2009-11-17	Added descriptions of new input types supported in iPhone OS 3.1.
2009-08-11	Added Safari availability for the <code>manifest</code> attribute.
2009-06-08	Added the <code>listitem</code> ARIA role and iPhone availability for the audio and video elements.
2009-04-28	Miscellaneous edits.
2009-02-05	Updated for Safari 4.0.
2008-11-12	Revised document structure and added application cache <code>manifest</code> and other iPhone OS HTML attributes.
2008-10-15	Minor edits throughout.
2008-09-09	Updated for Safari 3.1.
2008-01-15	Moved reference information for the <code>viewport</code> meta key from Safari Web Content Guide for iPhone.
2007-12-11	Added iPhone-specific HTML attributes.
2007-09-04	Reformatted content.
2006-05-23	Corrected typos.
2005-11-09	Corrected typos.
2005-08-11	Corrected typos.
	Corrected typos. Added information on the <code>paragraph</code> tag.
2005-06-28	Corrected a typo.
2005-06-04	New document that describes the HTML tags and properties supported by Safari and the Web Kit.

