**Main root**

| **Element** | **Description** |
| --- | --- |
| [<html>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/html) | The **HTML <html> element** represents the root (top-level element) of an HTML document, so it is also referred to as the *root element*. All other elements must be descendants of this element. |

**Document metadata**

Metadata contains information about the page. This includes information about styles, scripts and data to help software ([search engines](https://developer.mozilla.org/en-US/docs/Glossary/search_engine), [browsers](https://developer.mozilla.org/en-US/docs/Glossary/Browser), etc.) use and render the page. Metadata for styles and scripts may be defined in the page or link to another file that has the information.

| **Element** | **Description** |
| --- | --- |
| [<base>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/base) | The **HTML <base> element** specifies the base URL to use for all *relative* URLs in a document. |
| [<head>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/head) | The **HTML <head> element** contains machine-readable information ([metadata](https://developer.mozilla.org/en-US/docs/Glossary/metadata)) about the document, like its [title](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/title), [scripts](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/script), and [style sheets](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/style). |
| [<link>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/link) | The **HTML External Resource Link element (<link>)** specifies relationships between the current document and an external resource. This element is most commonly used to link to [stylesheets](https://developer.mozilla.org/en-US/docs/Glossary/CSS), but is also used to establish site icons (both "favicon" style icons and icons for the home screen and apps on mobile devices) among other things. |
| [<meta>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/meta) | The **HTML <meta> element** represents [metadata](https://developer.mozilla.org/en-US/docs/Glossary/Metadata) that cannot be represented by other HTML meta-related elements, like [<base>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/base), [<link>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/link), [<script>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/script), [<style>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/style) or [<title>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/title). |
| [<style>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/style) | The **HTML <style> element** contains style information for a document, or part of a document. |
| [<title>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/title) | The **HTML Title element** (**<title>**) defines the document's title that is shown in a [browser](https://developer.mozilla.org/en-US/docs/Glossary/Browser)'s title bar or a page's tab. |

**Sectioning root**

| **Element** | **Description** |
| --- | --- |
| [<body>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/body) | The **HTML <body> Element** represents the content of an HTML document. There can be only one <body> element in a document. |

**Content sectioning**

Content sectioning elements allow you to organize the document content into logical pieces. Use the sectioning elements to create a broad outline for your page content, including header and footer navigation, and heading elements to identify sections of content.

| **Element** | **Description** |
| --- | --- |
| [<address>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/address) | The **HTML <address> element** indicates that the enclosed HTML provides contact information for a person or people, or for an organization. |
| [<article>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/article) | The **HTML <article> element** represents a self-contained composition in a document, page, application, or site, which is intended to be independently distributable or reusable (e.g., in syndication). |
| [<aside>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/aside) | The **HTML <aside> element** represents a portion of a document whose content is only indirectly related to the document's main content. |
| [<footer>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/footer) | The**HTML <footer> element** represents a footer for its nearest [sectioning content](https://developer.mozilla.org/en-US/docs/Web/Guide/HTML/Content_categories#Sectioning_content) or [sectioning root](https://developer.mozilla.org/en-US/docs/Web/Guide/HTML/Sections_and_Outlines_of_an_HTML5_document#Sectioning_roots) element. A footer typically contains information about the author of the section, copyright data or links to related documents. |
| [<header>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/header) | The **HTML <header> element** represents introductory content, typically a group of introductory or navigational aids. It may contain some heading elements but also a logo, a search form, an author name, and other elements. |
| [<h1>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/h1), [<h2>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/h2), [<h3>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/h3), [<h4>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/h4), [<h5>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/h5), [<h6>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/h6) | The **HTML <h1>–<h6> elements** represent six levels of section headings. <h1> is the highest section level and <h6> is the lowest. |
| [<hgroup>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/hgroup) | The **HTML <hgroup> element** represents a multi-level heading for a section of a document. It groups a set of [<h1>–<h6>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/Heading_Elements) elements. |
| [<main>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/main) | The **HTML <main> element** represents the dominant content of the [<body>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/body) of a document. The main content area consists of content that is directly related to or expands upon the central topic of a document, or the central functionality of an application. |
| [<nav>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/nav) | The **HTML <nav> element** represents a section of a page whose purpose is to provide navigation links, either within the current document or to other documents. Common examples of navigation sections are menus, tables of contents, and indexes. |
| [<section>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/section) | The **HTML <section> element** represents a standalone section — which doesn't have a more specific semantic element to represent it — contained within an HTML document. |

**Text content**

Use HTML text content elements to organize blocks or sections of content placed between the opening [<body>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/body) and closing </body> tags. Important for [accessibility](https://developer.mozilla.org/en-US/docs/Glossary/accessibility) and [SEO](https://developer.mozilla.org/en-US/docs/Glossary/SEO), these elements identify the purpose or structure of that content.

| **Element** | **Description** |
| --- | --- |
| [<blockquote>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/blockquote) | The **HTML <blockquote> Element** (or *HTML Block Quotation Element*) indicates that the enclosed text is an extended quotation. Usually, this is rendered visually by indentation (see [Notes](https://developer.mozilla.org/en-US/docs/Web/HTML/Element#Usage_notes) for how to change it). A URL for the source of the quotation may be given using the **cite** attribute, while a text representation of the source can be given using the [<cite>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/cite) element. |
| [<dd>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/dd) | The **HTML <dd> element** provides the description, definition, or value for the preceding term ([<dt>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/dt)) in a description list ([<dl>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/dl)). |
| [<div>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/div) | The **HTML Content Division element** (**<div>**) is the generic container for flow content. It has no effect on the content or layout until styled using [CSS](https://developer.mozilla.org/en-US/docs/Glossary/CSS). |
| [<dl>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/dl) | The **HTML <dl>**element represents a description list. The element encloses a list of groups of terms (specified using the [<dt>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/dt) element) and descriptions (provided by [<dd>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/dd) elements). Common uses for this element are to implement a glossary or to display metadata (a list of key-value pairs). |
| [<dt>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/dt) | The **HTML <dt> element** specifies a term in a description or definition list, and as such must be used inside a [<dl>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/dl) element. |
| [<figcaption>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/figcaption) | The **HTML <figcaption> or Figure Caption element** represents a caption or legend describing the rest of the contents of its parent [<figure>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/figure) element. |
| [<figure>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/figure) | The **HTML <figure> (Figure With Optional Caption) element** represents self-contained content, potentially with an optional caption, which is specified using the ([<figcaption>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/figcaption)) element. |
| [<hr>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/hr) | The **HTML <hr> element** represents a thematic break between paragraph-level elements: for example, a change of scene in a story, or a shift of topic within a section. |
| [<li>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/li) | The **HTML <li> element** is used to represent an item in a list. |
| [<main>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/main) | The **HTML <main> element** represents the dominant content of the [<body>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/body) of a document. The main content area consists of content that is directly related to or expands upon the central topic of a document, or the central functionality of an application. |
| [<ol>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/ol) | The **HTML <ol> element** represents an ordered list of items — typically rendered as a numbered list. |
| [<p>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/p) | The **HTML <p> element** represents a paragraph. |
| [<pre>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/pre) | The **HTML <pre> element** represents preformatted text which is to be presented exactly as written in the HTML file. |
| [<ul>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/ul) | The**HTML <ul> element** represents an unordered list of items, typically rendered as a bulleted list. |

**Inline text semantics**

Use the HTML inline text semantic to define the meaning, structure, or style of a word, line, or any arbitrary piece of text.

| **Element** | **Description** |
| --- | --- |
| [<a>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/a) | The **HTML <a> element** (or *anchor* element), with [its href attribute](https://developer.mozilla.org/en-US/docs/Web/HTML/Element#href), creates a hyperlink to web pages, files, email addresses, locations in the same page, or anything else a URL can address. |
| [<abbr>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/abbr) | The **HTML Abbreviation element**(**<abbr>**) represents an abbreviation or acronym; the optional [title](https://developer.mozilla.org/en-US/docs/Web/HTML/Global_attributes#attr-title) attribute can provide an expansion or description for the abbreviation. |
| [<b>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/b) | The **HTML Bring Attention To element (<b>)** is used to draw the reader's attention to the element's contents, which are not otherwise granted special importance. |
| [<bdi>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/bdi) | The HTML **Bidirectional Isolate element** (**<bdi>**)  tells the browser's bidirectional algorithm to treat the text it contains in isolation from its surrounding text. |
| [<bdo>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/bdo) | The **HTML Bidirectional Text Override element** (**<bdo>**) overrides the current directionality of text, so that the text within is rendered in a different direction. |
| [<br>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/br) | The **HTML <br> element** produces a line break in text (carriage-return). It is useful for writing a poem or an address, where the division of lines is significant. |
| [<cite>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/cite) | The **HTML Citation element** (**<cite>**) is used to describe a reference to a cited creative work, and must include the title of that work. |
| [<code>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/code) | The **HTML <code> element** displays its contents styled in a fashion intended to indicate that the text is a short fragment of computer code. |
| [<data>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/data) | The **HTML <data> element** links a given piece of content with a machine-readable translation. If the content is time- or date-related, the [<time>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/time) element must be used. |
| [<dfn>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/dfn) | The **HTML Definition element** (***<dfn>***) is used to indicate the term being defined within the context of a definition phrase or sentence. |
| [<em>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/em) | The **HTML <em> element** marks text that has stress emphasis. The <em> element can be nested, with each level of nesting indicating a greater degree of emphasis. |
| [<i>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/i) | The **HTML Idiomatic Text element (<i>)** represents a range of text that is set off from the normal text for some reason, such as idiomatic text, technical terms, taxonomical designations, among others. |
| [<kbd>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/kbd) | The **HTML Keyboard Input element** (**<kbd>**) represents a span of inline text denoting textual user input from a keyboard, voice input, or any other text entry device. |
| [<mark>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/mark) | The **HTML Mark Text element** (**<mark>**) represents text which is **marked** or **highlighted** for reference or notation purposes, due to the marked passage's relevance or importance in the enclosing context. |
| [<q>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/q) | The **HTML <q> element**indicates that the enclosed text is a short inline quotation. Most modern browsers implement this by surrounding the text in quotation marks. |
| [<rb>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/rb) | The **HTML Ruby Base (<rb>) element** is used to delimit the base text component of a  [<ruby>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/ruby%22%20%5Co%20%22The%20HTML%20%3Cruby%3E%20element%20represents%20a%20ruby%20annotation.%20Ruby%20annotations%20are%20for%20showing%20pronunciation%20of%20East%20Asian%20characters.) annotation, i.e. the text that is being annotated. |
| [<rp>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/rp) | The **HTML Ruby Fallback Parenthesis (<rp>) element** is used to provide fall-back parentheses for browsers that do not support display of ruby annotations using the [<ruby>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/ruby) element. |
| [<rt>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/rt) | The **HTML Ruby Text (<rt>) element** specifies the ruby text component of a ruby annotation, which is used to provide pronunciation, translation, or transliteration information for East Asian typography. The <rt> element must always be contained within a [<ruby>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/ruby) element. |
| [<rtc>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/rtc) | The **HTML Ruby Text Container (<rtc>) element** embraces semantic annotations of characters presented in a ruby of [<rb>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/rb) elements used inside of [<ruby>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/ruby) element. [<rb>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/rb) elements can have both pronunciation ([<rt>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/rt)) and semantic ([<rtc>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/rtc)) annotations. |
| [<ruby>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/ruby) | The **HTML <ruby> element** represents a ruby annotation. Ruby annotations are for showing pronunciation of East Asian characters. |
| [<s>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/s) | The **HTML <s> element** renders text with a strikethrough, or a line through it. Use the <s> element to represent things that are no longer relevant or no longer accurate. However, <s> is not appropriate when indicating document edits; for that, use the [<del>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/del) and [<ins>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/ins) elements, as appropriate. |
| [<samp>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/samp) | The **HTML Sample Element** (**<samp>**) is used to enclose inline text which represents sample (or quoted) output from a computer program. |
| [<small>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/small) | The **HTML <small>** **element**represents side-comments and small print, like copyright and legal text, independent of its styled presentation. By default, it renders text within it one font-size smaller, such as from small to x-small. |
| [<span>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/span) | The **HTML <span> element** is a generic inline container for phrasing content, which does not inherently represent anything. It can be used to group elements for styling purposes (using the [class](https://developer.mozilla.org/en-US/docs/Web/HTML/Global_attributes#attr-class) or [id](https://developer.mozilla.org/en-US/docs/Web/HTML/Global_attributes#attr-id) attributes), or because they share attribute values, such as [lang](https://developer.mozilla.org/en-US/docs/Web/HTML/Global_attributes#attr-lang). |
| [<strong>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/strong) | The HTML **Strong Importance Element** (**<strong>**) indicates that its contents have strong importance, seriousness, or urgency. Browsers typically render the contents in bold type. |
| [<sub>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/sub) | The HTML **Subscript element** (**<sub>**) specifies inline text which should be displayed as subscript for solely typographical reasons. |
| [<sup>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/sup) | The **HTML Superscript element** (**<sup>**) specifies inline text which is to be displayed as superscript for solely typographical reasons. |
| [<time>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/time) | The HTML **<time> element** represents a specific period in time. |
| [<u>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/u) | The **HTML** **Unarticulated Annotation element** (**<u>**) represents a span of inline text which should be rendered in a way that indicates that it has a non-textual annotation. |
| [<var>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/var) | The HTML **Variable element** (**<var>**) represents the name of a variable in a mathematical expression or a programming context. |
| [<wbr>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/wbr) | The **HTML <wbr> element** represents a word break opportunity—a position within text where the browser may optionally break a line, though its line-breaking rules would not otherwise create a break at that location. |

**Image and multimedia**

HTML supports various multimedia resources such as images, audio, and video.

| **Element** | **Description** |
| --- | --- |
| [<area>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/area) | The **HTML <area> element** defines a hot-spot region on an image, and optionally associates it with a [hypertext link](https://developer.mozilla.org/en-US/docs/Glossary/Hyperlink). This element is used only within a [<map>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/map) element. |
| [<audio>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/audio) | The **HTML <audio> element** is used to embed sound content in documents. It may contain one or more audio sources, represented using the src attribute or the [<source>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/source) element: the browser will choose the most suitable one. It can also be the destination for streamed media, using a [MediaStream](https://developer.mozilla.org/en-US/docs/Web/API/MediaStream). |
| [<img>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/img) | The **HTML <img> element** embeds an image into the document. |
| [<map>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/map) | The **HTML <map> element** is used with [<area>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/area) elements to define an image map (a clickable link area). |
| [<track>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/track) | The **HTML <track> element** is used as a child of the media elements [<audio>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/audio) and [<video>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/video). It lets you specify timed text tracks (or time-based data), for example to automatically handle subtitles. The tracks are formatted in [WebVTT format](https://developer.mozilla.org/en-US/docs/Web/API/Web_Video_Text_Tracks_Format) (.vtt files) — Web Video Text Tracks or [Timed Text Markup Language (TTML).](https://w3c.github.io/ttml2/index.html) |
| [<video>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/video) | The **HTML Video element** (**<video>**) embeds a media player which supports video playback into the document. You can use <video> for audio content as well, but the [<audio>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/audio) element may provide a more appropriate user experience. |

**Embedded content**

In addition to regular multimedia content, HTML can include a variety of other content, even if it's not always easy to interact with.

| **Element** | **Description** |
| --- | --- |
| [<embed>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/embed) | The **HTML <embed> element** embeds external content at the specified point in the document. This content is provided by an external application or other source of interactive content such as a browser plug-in. |
| [<iframe>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/iframe) | The **HTML Inline Frame element (<iframe>)** represents a nested [browsing context](https://developer.mozilla.org/en-US/docs/Glossary/browsing_context), embedding another HTML page into the current one. |
| [<object>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/object) | The **HTML <object> element** represents an external resource, which can be treated as an image, a nested browsing context, or a resource to be handled by a plugin. |
| [<param>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/param) | The **HTML <param> element** defines parameters for an [<object>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/object) element. |
| [<picture>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/picture) | The **HTML <picture> element** contains zero or more [<source>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/source) elements and one [<img>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/img) element to offer alternative versions of an image for different display/device scenarios. |
| [<source>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/source) | The **HTML <source> element** specifies multiple media resources for the [<picture>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/picture), the [<audio>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/audio) element, or the [<video>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/video) element. |

**Scripting**

In order to create dynamic content and Web applications, HTML supports the use of scripting languages, most prominently JavaScript. Certain elements support this capability.

| **Element** | **Description** |
| --- | --- |
| [<canvas>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/canvas) | Use the **HTML <canvas> element** with either the [canvas scripting API](https://developer.mozilla.org/en-US/docs/Web/API/Canvas_API) or the [WebGL API](https://developer.mozilla.org/en-US/docs/Web/API/WebGL_API) to draw graphics and animations. |
| [<noscript>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/noscript) | The **HTML <noscript> element** defines a section of HTML to be inserted if a script type on the page is unsupported or if scripting is currently turned off in the browser. |
| [<script>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/script) | The **HTML <script> element** is used to embed executable code or data; this is typically used to embed or refer to JavaScript code. |

**Demarcating edits**

These elements let you provide indications that specific parts of the text have been altered.

| **Element** | **Description** |
| --- | --- |
| [<del>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/del) | The **HTML <del> element** represents a range of text that has been deleted from a document. |
| [<ins>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/ins) | The **HTML <ins> element** represents a range of text that has been added to a document. |

**Table content**

The elements here are used to create and handle tabular data.

| **Element** | **Description** |
| --- | --- |
| [<caption>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/caption) | The **HTML <caption> element** specifies the caption (or title) of a table. |
| [<col>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/col) | The **HTML <col> element** defines a column within a table and is used for defining common semantics on all common cells. It is generally found within a [<colgroup>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/colgroup) element. |
| [<colgroup>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/colgroup) | The **HTML <colgroup> element** defines a group of columns within a table. |
| [<table>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/table) | The **HTML <table> element** represents tabular data — that is, information presented in a two-dimensional table comprised of rows and columns of cells containing data. |
| [<tbody>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/tbody) | The **HTML Table Body element** (**<tbody>**) encapsulates a set of table rows ([<tr>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/tr) elements), indicating that they comprise the body of the table ([<table>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/table)). |
| [<td>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/td) | The **HTML <td> element** defines a cell of a table that contains data. It participates in the *table model*. |
| [<tfoot>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/tfoot) | The **HTML <tfoot> element** defines a set of rows summarizing the columns of the table. |
| [<th>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/th) | The **HTML <th> element** defines a cell as header of a group of table cells. The exact nature of this group is defined by the [scope](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/th#attr-scope) and [headers](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/th#attr-headers) attributes. |
| [<thead>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/thead) | The **HTML <thead> element** defines a set of rows defining the head of the columns of the table. |
| [<tr>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/tr) | The **HTML <tr> element** defines a row of cells in a table. The row's cells can then be established using a mix of [<td>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/td) (data cell) and [<th>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/th) (header cell) elements. |

**Forms**

HTML provides a number of elements which can be used together to create forms which the user can fill out and submit to the Web site or application. There's a great deal of further information about this available in the [HTML forms guide](https://developer.mozilla.org/en-US/docs/Web/Guide/HTML/Forms).

| **Element** | **Description** |
| --- | --- |
| [<button>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/button) | The **HTML <button> element** represents a clickable button, used to submit [forms](https://developer.mozilla.org/en-US/docs/Learn/HTML/Forms) or anywhere in a document for accessible, standard button functionality. |
| [<datalist>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/datalist) | The **HTML <datalist> element** contains a set of [<option>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/option) elements that represent the permissible or recommended options available to choose from within other controls. |
| [<fieldset>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/fieldset) | The **HTML <fieldset> element** is used to group several controls as well as labels ([<label>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/label)) within a web form. |
| [<form>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/form) | The **HTML <form> element** represents a document section containing interactive controls for submitting information. |
| [<input>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/input) | The **HTML <input> element** is used to create interactive controls for web-based forms in order to accept data from the user; a wide variety of types of input data and control widgets are available, depending on the device and [user agent](https://developer.mozilla.org/en-US/docs/Glossary/user_agent). |
| [<label>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/label) | The **HTML <label> element** represents a caption for an item in a user interface. |
| [<legend>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/legend) | The **HTML <legend> element** represents a caption for the content of its parent [<fieldset>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/fieldset). |
| [<meter>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/meter) | The **HTML <meter> element** represents either a scalar value within a known range or a fractional value. |
| [<optgroup>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/optgroup) | The **HTML <optgroup> element** creates a grouping of options within a [<select>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/select) element. |
| [<option>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/option) | The **HTML <option> element** is used to define an item contained in a [<select>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/select), an [<optgroup>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/optgroup), or a [<datalist>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/datalist) element. As such, <option> can represent menu items in popups and other lists of items in an HTML document. |
| [<output>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/output) | The **HTML Output element** (**<output>**) is a container element into which a site or app can inject the results of a calculation or the outcome of a user action. |
| [<progress>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/progress) | The **HTML <progress> element** displays an indicator showing the completion progress of a task, typically displayed as a progress bar. |
| [<select>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/select) | The **HTML <select> element** represents a control that provides a menu of options |
| [<textarea>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/textarea) | The **HTML <textarea> element** represents a multi-line plain-text editing control, useful when you want to allow users to enter a sizeable amount of free-form text, for example a comment on a review or feedback form. |

**Interactive elements**

HTML offers a selection of elements which help to create interactive user interface objects.

| **Element** | **Description** |
| --- | --- |
| [<details>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/details) | The **HTML Details Element (<details>)** creates a disclosure widget in which information is visible only when the widget is toggled into an "open" state. |
| [<dialog>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/dialog) | The **HTML <dialog> element** represents a dialog box or other interactive component, such as a dismissable alert, inspector, or subwindow. |
| [<menu>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/menu) | The **HTML <menu> element** represents a group of commands that a user can perform or activate. This includes both list menus, which might appear across the top of a screen, as well as [context menus](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/menu#Context_menu), such as those that might appear underneath a button after it has been clicked. |
| [<summary>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/summary) | The **HTML Disclosure Summary element** (**<summary>**) element specifies a summary, caption, or legend for a [<details>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/details) element's disclosure box. |

**Web Components**

Web Components is an HTML-related technology which makes it possible to, essentially, create and use custom elements as if it were regular HTML. In addition, you can create custom versions of standard HTML elements.

| **Element** | **Description** |
| --- | --- |
| [<slot>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/slot) | The **HTML <slot> element**—part of the [Web Components](https://developer.mozilla.org/en-US/docs/Web/Web_Components) technology suite—is a placeholder inside a web component that you can fill with your own markup, which lets you create separate DOM trees and present them together. |
| [<template>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/template) | The **HTML Content Template (<template>) element** is a mechanism for holding [HTML](https://developer.mozilla.org/en-US/docs/Glossary/HTML) that is not to be rendered immediately when a page is loaded but may be instantiated subsequently during runtime using JavaScript. |

**Obsolete and deprecated elements**

**Warning:** These are old HTML elements which are deprecated and should not be used. **You should never use them in new projects, and should replace them in old projects as soon as you can.** They are listed here for informational purposes only.

| **Element** | **Description** |
| --- | --- |
| [<acronym>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/acronym) | The HTML Acronym Element (<acronym>) allows authors to clearly indicate a sequence of characters that compose an acronym or abbreviation for a word. |
| [<applet>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/applet) | The obsolete **HTML Applet Element** (**<applet>**) embeds a Java applet into the document; this element has been deprecated in favor of [<object>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/object). |
| [<basefont>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/basefont) | The obsolete **HTML Base Font element** (**<basefont>**) sets a default font face, size, and color for the other elements which are descended from its parent element. |
| [<bgsound>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/bgsound) | The Internet Explorer only **HTML Background Sound element** (**<bgsound>**) sets up a sound file to play in the background while the page is used; use [<audio>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/audio) instead. |
| [<big>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/big) | The obsolete **HTML Big Element** (**<big>**) renders the enclosed text at a font size one level larger than the surrounding text (medium becomes large, for example). |
| [<blink>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/blink) | The **HTML Blink Element** (<blink>) is a non-standard element which causes the enclosed text to flash slowly. |
| [<center>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/center) | The obsolete **HTML Center Element** (**<center>**) is a [block-level element](https://developer.mozilla.org/en-US/docs/HTML/Block-level_elements) that displays its block-level or inline contents centered horizontally within its containing element. |
| [<command>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/command) | The **HTML Command element** (**<command>**) represents a command which the user can invoke. Commands are often used as part of a context menu or toolbar. |
| [<content>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/content) | The **HTML <content> element**—an obsolete part of the [Web Components](https://developer.mozilla.org/en-US/docs/Web/Web_Components) suite of technologies—was used inside of [Shadow DOM](https://developer.mozilla.org/en-US/docs/Web/Web_Components/Shadow_DOM) as an insertion point, and wasn't meant to be used in ordinary HTML. |
| [<dir>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/dir) | The obsolete **HTML Directory element** (**<dir>**) is used as a container for a directory of files and/or folders, potentially with styles and icons applied by the [user agent](https://developer.mozilla.org/en-US/docs/Glossary/user_agent). |
| [<element>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/element) | The obsolete **HTML <element> element** was part of the [Web Components](https://developer.mozilla.org/en-US/docs/Web/Web_Components) specification; it was intended to be used to define new custom DOM elements. |
| [<font>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/font) | The *HTML Font Element* (<font>) defines the font size, color and face for its content. |
| [<frame>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/frame) | <frame> is an HTML element which defines a particular area in which another HTML document can be displayed. A frame should be used within a [<frameset>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/frameset). |
| [<frameset>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/frameset) | The **HTML <frameset> element** is used to contain [<frame>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/frame) elements. |
| [<image>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/image) | The obsolete **HTML Image element (<image>)** is an obsolete remnant of an ancient version of HTML lost in the mists of time; use the standard [<img>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/img) element instead. |
| [<isindex>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/isindex) | **<isindex>** was an obsolete HTML element that put a text field in a page for querying the document. |
| [<keygen>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/keygen) | The HTML <keygen> element exists to facilitate generation of key material, and submission of the public key as part of an [HTML form](https://developer.mozilla.org/en-US/docs/Web/Guide/HTML/Forms). This mechanism is designed for use with Web-based certificate management systems. It is expected that the <keygen> element will be used in an HTML form along with other information needed to construct a certificate request, and that the result of the process will be a signed certificate. |
| [<listing>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/listing) | The *HTML Listing Element* (<listing>) renders text between the start and end tags without interpreting the HTML in between and using a monospaced font. The HTML 2 standard recommended that lines shouldn't be broken when not greater than 132 characters. |
| [<marquee>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/marquee) | The HTML <marquee> element is used to insert a scrolling area of text. You can control what happens when the text reaches the edges of its content area using its attributes. |
| [<menuitem>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/menuitem) | The **HTML <menuitem> element** represents a command that a user is able to invoke through a popup menu. This includes context menus, as well as menus that might be attached to a menu button. |
| [<multicol>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/multicol) | The **HTML Multi-Column Layout element** (**<multicol>**) was an experimental element designed to allow multi-column layouts and must not be used. |
| [<nextid>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/nextid) | **<nextid>** is an obsolete HTML element that served to enable the NeXT web designing tool to generate automatic NAME labels for its anchors. |
| [<nobr>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/nobr) | The non-standard, obsolete HTML <nobr> element prevents the text it contains from automatically wrapping across multiple lines, potentially resulting in the user having to scroll horizontally to see the entire width of the text. |
| [<noembed>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/noembed) | The **<noembed>** element is an obsolete, non-standard way to provide alternative, or "fallback", content for browsers that do not support the [<embed>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/embed) element or do not support the type of [embedded content](https://developer.mozilla.org/en-US/docs/Web/Guide/HTML/Content_categories#Embedded_content) an author wishes to use. |
| [<noframes>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/noframes) | The obsolete HTML **No Frames** or **frame fallback** element, **<noframes>**, provides content to be presented in browsers that don't support (or have disabled support for) the [<frame>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/frame) element. |
| [<plaintext>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/plaintext) | The *HTML Plaintext Element* (<plaintext>) renders everything following the start tag as raw text, ignoring any following HTML. |
| [<shadow>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/shadow) | The **HTML <shadow> element**—an obsolete part of the [Web Components](https://developer.mozilla.org/en-US/docs/Web/Web_Components) technology suite—was intended to be used as a shadow DOM insertion point. |
| [<spacer>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/spacer) | **<spacer>** is an obsolete HTML element which allowed insertion of empty spaces on pages. It was devised by Netscape to accomplish the same effect as a single-pixel layout image, which was something web designers used to use to add white spaces to web pages without actually using an image. However, <spacer> no longer supported by any major browser and the same effects can now be achieved using simple CSS. |
| [<strike>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/strike) | The **HTML <strike> element** (or *HTML Strikethrough Element*) places a strikethrough (horizontal line) over text. |
| [<tt>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/tt) | The obsolete **HTML Teletype Text element** (**<tt>**) creates inline text which is presented using the [user agent's](https://developer.mozilla.org/en-US/docs/Glossary/user_agent) default monospace font face. |
| [<xmp>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/xmp) | The *HTML Example Element* (<xmp>) renders text between the start and end tags without interpreting the HTML in between and using a monospaced font. The HTML2 specification recommended that it should be rendered wide enough to allow 80 characters per line. |