|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| !DOCTYPE | html | | | Document type |
| !-- -- |  | | | HTML Comment |
| html | xmlns=http://www.w3.org/1999/xhtml | | | HTML Document |
| head | global | | | Document metadata |
| style | media, type=text/css | | | Style |
| title |  | | | Title (required) |
| base | href, target | | | Base URL |
| link | href, hreflang, type, media, crossorigin, referrerpolicy, sizes, rel | | | External Resource  \*usually style sheets |
| meta | name, charset, content, http-equiv | | | Document metadata |
| body | global, event | | | Document content |
| nav |  | | | Navigation |
| header |  | | | Header |
| main |  | | | Main Content |
| aside |  | | | Side Content |
| footer |  | | | Footer |
| section |  | | | Section |
| div |  | | | Block Section |
| span |  | | | Inline Section |
| br |  | | | Invisible Single-Line Break |
| hr |  | | | Visible Single-Line Break |
| hgroup |  | | | Groups Headings |
| h1 – h6 |  | | | Headings |
| p |  | | | Paragraph |
| article |  | | | Article |
| pre |  | | | Pre-formatted Text |
| wbr |  | | | Specify text breaks |
| q | cite | | | Short Quote |
| blockquote | cite | | | Block Quote |
| cite |  | | | Title of Creative Work |
| address |  | | | Author Information |
| details | open | | | Toggleable Content |
| summary |  | | | <details> Heading |
| dialog | open | | | Dialog Box |
| template |  | | | Content Template |
| table |  | | | Table |
| caption |  | | | Table Caption |
| colgroup | span | | | Group Columns to Format |
| col | span | | | <colgroup> Column |
| th | colspan, rowspan, headers, scope, abbr | | | Header Cell |
| tr |  | | | Table Row |
| td | colspan, rowspan, headers | | | Table Cell |
| thead |  | | | Groups Table Header |
| tbody |  | | | Groups Table Body |
| tfoot |  | | | Groups Table Footer |
| menu |  | | | Toolbar List |
| ul |  | | | Unordered List |
| ol | type, start, reversed | | | Ordered List |
| li | value | | | List Item |
| dl |  | | | Description List |
| dt |  | | | <dl> Term |
| dd |  | | | <dl> Description |
| dfn |  | | | Term Definition |
| abbr |  | | | Term Abbreviation |
| a | href, hreflang, type, rel, target, ping, download, media, referrerpolicy | | | Hyperlink |
| picture | \*<source> then <img> | | | Multiple Image Container |
| source | src, srcset, sizes, media, type | | | Media Resources |
| img | src, alt, height, width, sizes, srcset, longdesc, ismap, usemap, crossorigin, longdesc, referrerpolicy, loading | | | Image |
| map | name== \*usemap=”#*name*” | | | Image Map |
| area | alt, coords, shape, type, href, hreflang, media, target, rel, download, referrerpolicy | | | <map> Areas |
| svg |  | | | Scalable Vector Graphic |
| canvas | height, width | | | Script-generated Graphic |
| figure |  | | | Self-contained Content |
| figcaption |  | | | <figure> Caption |
| audio | src, controls, preload, autoplay, loop, muted | | | Audio (mp3, wav, ogg)  \*requires <source> |
| video | src, controls, preload, height, width, poster,  autoplay, loop, muted | | | Video (mp4, webm, ogg) |
| track | src, srclang, label, default, kind | | | <video> <audio> Text Track (vtt) |
| iframe | src, srcdoc, name, loading, sandbox, width, allow, -fullscreen, -paymentrequest, referrerpolicy | | | Embedded HTML Document |
| embed | src, height, width, type | | | Embed External Resource |
| object | height, width, data, type, typemustmatch, name, form, usemap | | | Embed external resource (mostly plug-ins) |
| param | name, value | | | <object> Parameter |
| var |  | | | Math/Program Variable |
| kbd |  | | | Keyboard Input |
| code |  | | | Program Code |
| samp |  | | | Program Output |
| time | datetime | | | Datetime |
| data | value | | | Machine-readable Content |
| b |  | | | Bold Text |
| i |  | | | Italicize Text |
| u |  | | | Underline Text |
| s |  | | | Strikethrough Text |
| sub |  | | | Subscript Text |
| sup |  | | | Superscript Text |
| small |  | | | Smaller Text |
| strong |  | | | Important Text |
| em |  | | | Emphasizes Text |
| mark |  | | | Highlight Text |
| del | cite, datetime | | | Deleted Text |
| ins | cite, datetime | | | Corrected Text |
| bdi |  | | | Text in Opposite Direction |
| bdo | dir | | | Text Direction Override |
| ruby |  | | | East-Asian Typography |
| rt |  | | | Ruby Explanation |
| rp |  | | | Alternate Ruby Description |
| form | accept-charset, action, autocomplete, enctype, method, name, novalidate, rel, target | | | Form |
| fieldset | form, name, disabled | | | Group Form Elements |
| legend |  | | | <fieldset> Caption |
| label | for, form | | | Input Label |
| input | autocomplete, accept, autofocus, checked, dirname, disabled, form, formaction, formenctype, formmethod, formtarget, formnovalidate, height, list, max, maxlength, min, minlength, multiple, name, pattern, placeholder, readonly, required, size, src, step, type, value, width, alt | | | Input control |
| textarea | name, form, wrap,  cols, rows, maxlength, placeholder, required, disabled, readonly, autofocus, dirname | | | Multiline Textbox |
| datalist | id | | | Pre-defined Option List  \*id == <input list=”*value*”> |
| select | name, form, multiple, required, disabled, autofocus, size | | | Dropdown List |
| optgroup | label, disabled | | | Group <select> Options |
| option | value, label, selected,  disabled | | | <datalist> <select> Option |
| button | type, value, name, autofocus, disabled, form, form- (action, enctype, method, novalidate, target) | | | Button  \*default: type=submit |
| output | for, form, name | | | Calculation Result |
| progress | value, max | | | Progress Bar |
| meter | value, form, min, max  low, high, optimum | | | Gauge |
| search |  | | | Search Bar |
| slot | name | | |  |
| script | src, type, async, defer,  crossorigin, integrity, nomodule, referrerpolicy | | | Client-side Script |
| noscript |  | | | Alternate Script Content |
| id | | *id* | Unique ID (referenced #*id*) | |
| class | | *name* | Class for styling or scripting | |
| style | | *property:value* | Inline Style | |
| title | | *text* | Tooltip Text | |
| lang | | lang\_code | Language | |
| spellcheck | | true | false | Spellcheck enabling | |
| dir | | ltr | rtl | auto | Text direction | |
| tabindex | | *number* | Tabbing order | |
| accesskey | | *character* | Focus shortcut key | |
| contenteditable | | true | false | Editable content | |
| draggable | | true | false | auto | Draggable content | |
| hidden | | -PRESENCE- | Hidden content | |
| data- | | *name*=“*value*” | Store custom data attributes | |

|  |  |  |
| --- | --- | --- |
| charset | *encoding* | <meta> Document  <script> Source |
| http-equiv | content-security-policy | content-type | default-style | HTTP header simulator |
| content | *value,* | “name” “http-equiv” value |

|  |  |  |
| --- | --- | --- |
| cite | *url* | Citation URL |
| datetime | YYYY-MM-DDThh:mm:ssTZD | Date and time |
| open | -PRESENCE- | Display details |
| min | *number* | Lower bound |
| max | *number* | Higher bound |
| optimum | *number* | Optimal value |
| low | *number* | Low value for <meter> |
| high | *number* | High value for <meter> |
| form | *form\_name* | Element’s form |
| for | *element\_id* | <label> Form element’s label  <output> Calculation relationship |
| accept-charset | *charset* | Submission character encoding |
| action | *destination* | Submission destination |
| autocomplete | on | off | Autocomplete enabling |
| enctype | *encoding/encoding* | Submission data encoding (POST only) |
| method | get | post | Submission method |
| name | *name* | Names HTML element for reference |
| novalidate | -PRESENCE- | Submission validation enabling |
| rel | alternate | author | bookmark | dns\_prefetch | external | help | icon| license | next | pingback| preconnect| nofollow | noreferrer | noopener |opener| prefetch | preload | prerender | prev | search | tag | stylesheet | Relationship between resources |
| target | \_blank | \_parent | \_self | \_top | *frame\_name* | Linked document destination |
| autofocus | -PRESENCE- | Autofocus enabling |
| checked | -PRESENCE- | Pre-select option |
| dirname | *element\_name.dir* | Submits text direction |
| disabled | -PRESENCE- | Disables element |
| formaction | *destination* | Submission destination overriding “action” |
| formenctype | multipart/form-data | text/plain application/x-www-form-urlencoded | Submission data encoding overriding “enctype”  \*for type submit and image |
| formmethod | get | post | Submission method overriding “method”  \*for type submit and image |
| formnovalidate | formnovalidate | Submission validation enabling overrides “novalidate” |
| formtarget | \_blank | \_self | \_parent | \_top | *frame\_name* | Linked document destination |
| height | *number* | Element height (default pixels) |
| list | *list\_id* | References <datalist> |
| maxlength | *number* | Maximum number of characters |
| minlength | *number* |  |
| multiple | -PRESENCE- | Allow multiple values |
| pattern | *regex* | Input pattern requirements |
| placeholder | *Placeholder* | Placeholder |
| readonly | -PRESENCE- | Immutable input |
| required | -PRESENCE- | Required input |
| size | *number* | <input> Visible width  <select> Visible options |
| src | *url* | URL to external resource |
| step | *number* | *range* | *datetime* | month | time | week | Interval of input |
| type | <button>  <input>  <embed> | Type of element |
| value | *number* | Current value |
| width | *number* | Element width (default pixels) |
| accept |  | File types accepted |
| alt | *text* | Alternative information |
| cols | *number* | Visible width (default ems) |
| rows | *number* | Visible height (default ems) |
| wrap | soft | hard | Submission text wrap |
| label | *text* | <track> title |
| selected | -PRESENCE- | Pre-selects option |
| media |  | Linked resource media/device optimization |
| sizes |  | Icon size (for rel=”icon”) |
| srcset | *url* | URL of image |
| crossorigin |  |  |
| ismap | -PRESENCE- | Part of server-side image map (<a href> child) |
| loading |  |  |
| longdesc |  |  |
| referrerpolicy |  |  |
| usemap | #*map\_name* | Image map definition |
| coords | *coordinates* | Image map areas |
| download | -PRESENCE- | *save\_name* | Sets link to download |
| href | *url* | Resource URL |
| hreflang | *lang\_code* | Linked resource language |
| shape |  | Area shape |
| autoplay | -PRESENCE- | Autoplays media |
| controls | -PRESENCE- | Displays media controls |
| loop | -PRESENCE- | Loop media |
| muted | -PRESENCE- | Mutes media |
| poster | *url* | Poster for <video> |
| preload | -PRESENCE- | none | Pre-loads media  \*ignored if “autoplay” |
| default | -PRESENCE- | Default subtitle |
| Kind | *file\_type* | Subtitle kind |
| Srclang | *lang\_code* | Subtitle language  \*required for kind=”subtitles” |
| allow |  |  |
| allowfullscreen |  |  |
| allowpayment-request |  |  |
| sandbox | -PRESENCE- | | Restrictions for <iframe> |
| srcdoc | *html* | HTML content of <iframe> |
| ping |  |  |
| start | *number* | List start value |
| reversed | -PRESENCE- | List order |
| span | *number* | Number of columns in <col> and <colgroup> |
| abbr |  |  |
| colspan | *number* | Number of columns cell spans |
| headers | *header\_id* | Cell header relationship |
| rowspan | *number* | Number of rows cell spans |
| scope |  | Header spans |
| async | -PRESENCE- | Script asynchronous, get when available/ while parsing |
| defer | -PRESENCE- | Script asynchronous, get after parsing |
| integrity |  |  |
| nomodule |  |  |
| data | *url* | Resource URL |
| typemustmatch |  |  |
| toggle | <details> | Toggles <details> |

|  |  |  |
| --- | --- | --- |
| on- | *script* | Event Attribute |
| afterprint | <body> | Document printed |
| beforeprint | <body> |  |
| load | <body> <iframe> <img> <link> <script> <style> | Document loaded |
| beforeunload | <body> | Document unloaded |
| unload | <body> |  |
| error | <img> <object> <link> <script> | Error while loading resource |
| hashchange | <body> | Change to anchor(#) of URL |
| message |  | Message triggered |
| offline | <body> | Browser offline |
| online | <body> | Browser online |
| pagehide | <body> | Navigate away |
| pageshow | <body> | Navigate to |
| popstate |  | Window history changed |
| resize | <body> | Window resized |
| storage |  | Browser storage updated |
| blur | - <base> <bdo> <br> <head> <html> <iframe> <meta> <param> <script> <style> <title> | Unfocused |
| focus | “” | Focused |
| change | <input type=“checkbox,file, password,radio,range,search, text”> <select> <textarea> | Changed |
| input | <input type=“password,search, text”> <textarea> | Inputted |
| invalid | <input> | Invalidated |
| search | <input type=“search”> | Search field populated |
| select | <input type=“file, password, text”> <textarea> | Text selected |
| reset | <form> | Reset form |
| submit | <form> | Submit form |
| keydown | - <base> <bdo> <br> <head> <html> <iframe> <meta> <param> <script> <style> <title> | Key pressed down |
| keypress | “” | Key pressed (- ALT CTRL SHIFT ESC) |
| keyup | “” | Key released |
| click | “” | Click |
| dblclick | “” | Double click |
| mousedown | “” | Pressed down |
| mousemove | “” | Move while over |
| mouseout | “” | Move out |
| mouseover | “” | Move over |
| mouseup | “” | Released |
| wheel | ALL | Wheel scroll |
| drag | “” | Element dragged |
| dragend | “” | End of drag |
| dragenter | “” | Enters valid drop target |
| dragleave | “” | Leaves valid drop target |
| dragover | “” | Over valid drag target |
| dragstart | “” | Start of drag |
| drop | “” | Drop dragged |
| scroll | <address> <blockquote>, <body> <caption> <center> <dd> <dir> <div> <dl> <dt> <fieldset> <form> <h1-6> <html> <li> <menu> <object> <ol> <p> <pre> <select> <tbody> <textarea> <tfoot> <thead> <ul> | Element scrollbar is scrolled |
| copy | ALL |  |
| cut | “” |  |
| paste | “” |  |
| abort | “” | Abort media |
| canplay | “” | Playable after buffering |
| canplaythrough | “” | Fully loaded |
| cuechange | “” | <track> cue change |
| durationchange | “” | Media length changes |
| emptied | “” | Media becomes unavailable |
| ended | “” | Media ended |
| error | “” | Loading error |
| loadeddata | “” | Data loaded |
| loadedmetadata | “” | Metadata loaded |
| loadstart | “” | Loading start |
| pause | “” | Media paused |
| play | “” | Media ready to play |
| playing | “” | Media playing |
| progress | “” | Getting media data |
| ratechange | “” | Play-rate changed |
| seeked | “” | Player finished seeking |
| seeking | “” | Player seeking |
| stalled | “” | Unable to fetch media |
| suspend | “” | Fetching media stopped |
| timeupdate | “” | Playing position changed manually |
| volumechange | “” | Volume changed |
| waiting | “” | Paused, but expected to resume (buffer) |

Block vs inline element

Character entities and diacritical marks