

# HTML5 WEB DEVELOPMENT

Created by @Manz (<https://twitter.com/Manz>)<https://lenguajehtml.com/>

## S HTML Syntax Tag structure

## HTML TAG/ATTRIBUTE SYNTAX

&lt;tag attribute="value"&gt; content &lt;/tag&gt;

## D Document tags HTML main structure

## MAIN TAGS

<!DOCTYPE html> HTML5 document  
<html> document content root tag  
<head> metadata header related docs  
<body> page content visible content

## G Global Attributes for all elements

## DOM / STYLE ATTRIBUTES

**id** element identifier unique per page  
**class** element class multiple per page  
**slot** element slot reference to <slot>  
**style** inline CSS styles css properties

## GLOBAL ATTRIBUTES

**accesskey** shortcut key to focus  
**contenteditable** allow edit element  
**dir** ltr | rtl | auto text direction  
**draggable** | auto enable drag and drop  
**hidden** hide element not relevant  
**is** custom-elem custom built-in elem  
**lang** code set content lang en, es, fr...  
**nonce** hash whitelist script/style [CSP]  
**spellcheck** disable grammar check  
**tabindex** num set element order  
**title** set tooltip text mouse hover  
**translate** yes | no disable translation  
**data-\*** custom metadata on element

## HINT TO BROWSER

**enterkeyhint** enter | done | go | search  
next | previous | send virtual keyb label  
**inputmode** none | text | tel | url | email  
numeric | decimal | search

## MICRODATA ATTRIBUTES

**itemid** set global urn unique identifier  
**itemscope** new metadata item  
**itemtype** set microdata genre url  
**itemref** id | list set reference to "id"  
**itemprop** token set property & value

## S Inline Styling CSS inline

## INLINE STYLES

<style> embed css style in a document  
**title** set title to stylesheet set  
**type** mime hint type for browser

ONLY FOR &lt;LINK&gt;, PICTURE &lt;SOURCE&gt; &amp; &lt;STYLE&gt;

**media** apply to specific devices  
**all** all devices computers, mobiles...  
**print** printables devices  
**screen** all devices - (print + speech)  
**speech** devices that read a page

## CHEATSHEET LEGEND

|                   |                        |            |
|-------------------|------------------------|------------|
| html tag          | html tag w/o close tag | obsolete   |
| attribute         | attribute w/o value    |            |
| value             | default value          | values set |
| value for content | value part             |            |

## C Comment Syntax Dev annotations

## HTML COMMENT SYNTAX

&lt;!-- text without effects on webpage --&gt;

## H Head tags Header & document metadata

## RELATIONS

**<link>** document relation  
**href** link to related document  
**hreflang** code doc language en, es...  
**type** mime hint type for browser  
**title** set title to stylesheet set  
**sizes** hint size for favicon 64x64, 96x96  
**rel** relation type with other document

## BASIC RELATION

**alternate** link to alternate version  
**author** link to author URL  
**help** link to help URL  
**icon** link to favicon URL (tab icon)  
**license** fetch module map  
**pingback** link to pingback server  
**search** link to search page url  
**stylesheet** imports a css style sheet

## URL STRUCTURE RELATION

**canonical** link to preferred URL  
**prev** prev part URL of series doc  
**next** next part URL of series doc

## RESOURCE HINTS

**dns-prefetch** resolve dns domain  
**preconnect** pre connect to domain  
**prefetch** fetch/cache link for future  
**preload** fetch/cache link for now  
**modulepreload** fetch module map  
**prerender** background render page  
**as** | script | font | image | audio | video | fetch  
**document** | embed | object | style | track  
**worker**

## DOCUMENT METADATA

<meta> document metadata  
**charset** enc encoding utf-8, iso-8859-1...  
**name** name of metadata  
**application-name** short webapp name  
**author** name of the page's author  
**description** seo page description  
**generator** software used to build web  
**keywords** comma-separated tags  
**referrer** default page referrer policy  
**theme-color** primary theme css color  
**viewport** hint to initial size viewport  
**http-equiv** pragma directive (legacy)  
**content-type** legacy alt. to charset  
**default-style** default stylesheet set  
**refresh** html redirect 10; URL=file.html  
**x-ua-compatible** better compat IE=edge  
**content-security-policy** enforce csp  
**content** metadata value

<title> seo document title  
<base> set a document base url  
**href** link to base url to use  
**target** context place to open link

## S Social metadata For social networks

## FACEBOOK OPEN GRAPH

<meta> metadata tag for open graph  
**property** metadata type open graph  
**content** metadata value open graph

## REQUIRED METADATA PROPERTIES

**og:title** title of your object  
**og:type** type of your object  
music | video | article | book  
profile | website

**og:image** image url for preview  
**og:url** canonical & absolute url

## OPTIONAL METADATA PROPERTIES

**og:audio** complementary audio url  
**og:description** 1-2 sentence descr.  
**og:determiner** word auto, the, a, an, ...  
**og:locale** language default: en\_US  
**og:locale:alternative** others lang array  
**og:site\_name** general site name  
**og:video** complementary video url

## TWITTER CARDS

<meta> metadata tag for twitter cards  
**name** metadata type twitter cards  
**content** metadata value twitter cards

## BASIC METADATA PROPERTIES

**twitter:title** title of your object  
**twitter:type** type of your object  
summary | summary\_large\_image  
app | player

## OPTIONAL METADATA PROPERTIES

**twitter:site** account site name  
**twitter:creator** account name @manz  
**twitter:description** description  
**twitter:image** absolute image url

## APP METADATA PROPERTIES

**twitter:app:country** country code  
**twitter:app:name:** \*\*\*\* name of app  
**twitter:app:id:** \*\*\*\* identifier of app  
**twitter:app:url:** \*\*\*\* url of app store  
iphone | ipad | googleplay | id for \*\*\*\*

## PLAYER METADATA PROPERTIES

**twitter:player** https url to iframe player

## GOOGLE SEO RECOMMENDATIONS

<title> first - second | brand 50-60 chars  
<meta> metadata google-supported  
**name** metadata name  
**description** text snippet 50-160 chars  
**robots** | googlebot set bots behaviour  
all | noindex |nofollow | none  
noarchive | nosnippet | noopd  
notranslate | noimageindex  
unavailable\_after: date  
**google** disable google features  
notranslate | nositelinkssearchbox  
**rating** adult exclude secure search  
**viewport** optimized-mobile page  
content="width=device-width, initial-scale=1.0"

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## F Forms Forms related tags

## MAIN ELEMENTS

**<form>** form elements collection  
**name** form name document.forms.api  
**method** GET POST dialog send method  
**action** url to backend form submission  
**accept-charset** enc force encoding utf-8  
**autocomplete** on off autofill for all form  
**novalidate** bypass form validation  
**target** context place to put response  
**enctype** application/x-www-form-urlencoded  
 multipart/form-data text/plain encoding type

**<label>** associate element with caption  
 for reference to **id** of related element

## GROUP FORMS

**<fieldset>** group of form elements  
**name** element name forms.elements.api  
**form** associate fieldset with a form  
**disabled** avoid select this group items  
**<legend>** caption text for fieldset

## I Input elements User input types

## USER INPUT DATA

**<input>** <textarea> specific & large text  
**name** element name form.elements.api  
**autocomplete** on off autofill for input  
**autofocus** focus input when loaded  
**dirname** submit element directionality  
**form** associate input with a form  
**placeholder** user visual hint

## ONLY &lt;INPUT&gt; ELEMENT

**<input>** specific text input short text

**type** text hidden search tel url email  
 number range color file password  
 datetime-local date time week month  
 checkbox radio submit image reset button  
**value** current value of input element  
**size** size of element in characters  
**list** associate with **id** of <datalist>  
**accept** hint for expected file in upload  
**checked** enable in radio or checkbox  
**multiple** allow multiple values

## ONLY IMAGE &lt;INPUT&gt; ELEMENT

**src** url or name of image button  
**alt** alternative text to image  
**width** height image width/height size

## ONLY &lt;TEXTAREA&gt; ELEMENT

**<textarea>** multiline text input large text  
**rows** cols number of lines and columns  
**wrap** wrap text

## ALTER FORM SUBMISSION ONLY SUBMIT &lt;INPUT&gt; &amp; &lt;BUTTON&gt;

**formaction** formtarget formnovalidate  
**formencotype** formmethod  
 attributes to alter main form submission

## R Ruby tags Ruby Markup tags

## RUBY ELEMENTS

**<ruby>** ruby annotation E.Asian-like chars  
**<rp>** ruby fallback parenthesis wrapper  
**<rt>** ruby text pronunciation, translation...

## S Select data tags Interactive combo

## SELECT ELEMENTS

**<select>** form elements collection  
**name** form name document.forms.api  
**form** associate input with a form  
**size** size of element in characters  
**autocomplete** on off autofocus for input  
**autofocus** focus input when loaded  
**disabled** avoid press button  
**required** required field default: optional  
**multiple** allow select multiple values  
**<datalist>** predefined and open data list

## SELECT CHILDREN ELEMENTS

**<options>** item from <select> or <datalist>  
**label** user-visible text instead content  
**value** item value for form submit  
**selected** options selected by default  
**disabled** avoid select this item option  
**<optgroup>** group of <option>  
**label** user-visible group text  
**disabled** avoid select this items

## I Interactive tags Other elements

## OTHER FORM ELEMENTS

**<output>** result of calculation  
**name** element name forms.elements.api  
**form** associate input with a form  
**for** associate result to other element  
**<progress>** show a bar progress  
**value** current value of bar progress  
**max** max value of bar progress  
**<meter>** show a known range meter  
**value** current value of meter  
**low** limit of low range  
**high** limit of high range  
**min** lower bound of range  
**max** upper bound of range  
**optimum** optimum value in gauge

## OTHER INTERACTIVE ELEMENTS

**<details>** disclosure widget html accordion  
**open** keep accordion opened  
**<summary>** caption or title for <details>  
**<dialog>** window box container dialog box  
**open** keep dialog opened

## B Generic Button HTML Button

## HTML GENERIC &lt;BUTTON&gt;

**<button>** generic button container  
**name** element name form.elements.api  
**type** submit reset button button type  
**value** button value for form submission  
**form** associate input with a form  
**autofocus** focus button when loaded  
**disabled** avoid press button

## D Deprecated tags Obsolete elements

## DEPRECATED TAG

## RECOMMENDED TAG

**<applet>** java widgets <embed> <object>  
**<acronym>** abbreviation <abbr>  
**<basefont>** main font use CSS instead  
**<big>** bigger text use CSS font-size  
**<bgsound>** background sound <audio>  
**<blink>** flicker text use CSS animation  
**<center>** center text use CSS text-align  
**<dir>** directory list use lists instead <ul>  
**<font>** set font features use CSS instead  
**<frame>** <frameset> frames <iframe>  
**<marquee>** move text use CSS animation  
**<multicol>** col layout use CSS columns  
**<noframes>** frames fallback no supported  
**<isindex>** search in page <input>  
**<keygen>** keypair gen use webcrypto API  
**<listing>** preformatted text <pre> <code>  
**<menuitem>** context menu no supported  
**<nextid>** auto id generated no supported  
**<nobr>** no break use CSS instead  
**<noembed>** no embed fallback <object>  
**<plaintext>** plain text fragment <pre>  
**<br>** <rt> ruby base & container <ruby>  
**<spacer>** whitespace use CSS instead  
**<strike>** strikethrough text <s> <del>  
**<tt>** teletype text use CSS instead  
**<xmp>** code block use &lt; <pre> <code>

## V Validations HTML validations

## USER INPUT DATA

## &lt;INPUT&gt; &amp; &lt;TEXTAREA&gt;

**minlength** maxlength min/max length

## GENERAL VALIDATIONS

## &lt;INPUT&gt; &amp; &lt;TEXTAREA&gt;

**required** required field default: optional

**disabled** avoid edit field not send

**readonly** avoid edit field send

## NUMBER VALIDATIONS

## ONLY &lt;INPUT&gt;

**min** max min/max value number

**step** granularity step between values

## POWERFUL VALIDATIONS

## ONLY &lt;INPUT&gt;

**pattern** REGEXP pattern for test validation

## A ARIA Attributes Accesible elements

## ACCESIBLE RICH INTERNET APPLICATIONS

**role** specify accessible role for element

complementary list listitem main navigation  
 region tab alert application article banner  
 button cell checkbox contentinfo dialog  
 document feed figure form grid gridcell  
 heading img listbox row rowgroup search  
 switch tabletabpanel textbox timer  
**aria-checked** true false mixed  
**aria-selected** set current state

## LABELS

**aria-label** specify a string as label  
**aria-labelledby** specify id as label elem

## RELATIONSHIPS

**aria-owns** set id element as child  
**aria-activedescendant** set id as active  
**aria-describedby** set id as description  
**aria-posinset** specify position in set  
**aria-setsize** specify size of set

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## G Groups tags Block elements

## GENERAL GROUP TAGS

**<div>** generic division or layer block  
**<p>** text paragraph  
**<hr>** thematic break  
**<pre>** preformatted text  
**<main>** dominant contents  
**<blockquote>** section with quote  
**cite** link to url with quotation source

## LISTS &amp; TERMS

**<ul>** <ol> unorderer & orderer list  
**start** first value of list  
**reversed** backwards list  
**type** 1 a A I i kind of marker  
**<li>** item from <ul> or <ol> list  
**value** ordinal value of item  
**<dl>** description list container  
**<dt>** <dd> description term name & value

## FIGURE &amp; CAPTIONS

**<figure>** figure or concept  
**<figcaption>** caption or legend for figure

## SEMANTIC TAGS

**<article>** entity content post, comment...  
**<section>** thematic group of content  
**<nav>** section with navigation links  
**<aside>** secondary content sidebar, menu  
**<h1>** <h2> ... <h6> heading section  
**<header>** introductory header group  
**<footer>** section footer group  
**<address>** contact information group

## T Tables tags Tabular data

## TABLE ELEMENTS

**<table>** table container  
**<caption>** title of table optional  
**<thead>** table header includes headers  
**<tbody>** table body includes body data  
**<tfoot>** table footer includes summary

## COLUMNS

**<col>** <colgroup> col & group of columns  
**span** number of columns to span

## ITEMS

**<tr>** table row horizontal container  
**<th>** <td> table header & table cell data  
**colspan** number of columns to span  
**rowspan** number of rows to span  
**headers** one or more id of <th> elements  
ONLY FOR <TH> ELEMENT  
**scope** auto row col rowgroup colgroup  
**abbr** short abbreviated description

## T Target destination

## KEYWORDS &amp; TARGET DESTINATION

**target** browser destination  
**\_self** current place same page  
**\_blank** new place new tab page  
**\_parent** parent place else \_self  
**\_top** root parent place else \_self  
**name** custom place iframe or other

## T Text tags Inline elements

## TEXT SEMANTIC TAGS

**<em>** emphasized text replace for <i>  
**<strong>** important text replace for <b>  
**<mark>** highlight text replace for <u>  
**<i>** alternate voice/mood legacy tag  
**<b>** span w/o extra purposes legacy tag  
**<u>** non-textual data span legacy tag  
**<sub>** <sup> subscript and superscript  
**<small>** side comments small print  
**<var>** math or programming variable  
**<samp>** sample from computing system  
**<kbd>** user input (keyboard shortcut)  
**<dfn>** defining instance of a term  
**title** full term optional  
**<abbr>** abbreviation or acronym  
**title** expansion of abbreviation optional  
**<cite>** title of a work book, film, song...  
**<q>** quoted group from another source  
**cite** link to source url optional  
**<br>** line break visual enter  
**<wbr>** line break opportunity long words  
**<s>** no longer accurate/relevant strike text  
**<data>** associate machine-data to text  
**value** machine-readable value  
**<time>** associate machine-date to date  
**datetime** machine-readable date-time  
**<code>** fragment of computer code

## H Hyperlinks Link to another resource

## HYPERLINKS &amp; AREA MAP

**<a>** <area> hyperlink / image map area  
**href** link to url or filename  
**hreflang** code doc language en, es...  
**download** download name empty valid  
**rel** alternate author bookmark external help  
license prev next search tag opener noreferrer  
**target** context place to open link  
**ping** url list space-separated to ping  
**referrerpolicy** mode referer behaviour  
ATTRIBUTES ONLY FOR <AREA> ELEMENT  
**shape** rect circle poly  
**coords** coords list for shape  
**alt** replacement text when no images

## E Edit tags Edit elements

## TEXT SEMANTIC TAGS

**<ins>** <del> addition or removal from doc  
**cite** link to source quotation optional  
**datetime** date/time of change optional

## S Security & Privacy Edit elements

## POLICIES &lt;IMG&gt;, &lt;VIDEO&gt;, &lt;AUDIO&gt;, &lt;LINK&gt; or &lt;SCRIPT&gt;

**crossorigin** CORS support  
anonymous use-credentials  
**referrerpolicy** set how referer works  
no-referrer no-referrer-when-downgrade  
same-origin origin strict-origin unsafe-url  
origin-when-cross-origin strict-origin-when-cross-origin

## I Image tags Picture content

## IMAGES

JPG PNG SVG WEBP JPGXR JPG2000 GIF APNG

**<img>** image simple or legacy fallback  
**src** link to url image source required  
**alt** alternative text if no image required  
**width** **height** horizontal & vertical size  
**loading** set lazy loading strategy  
auto browser decides  
lazy candidate for lazy loading  
eager load right away  
**usemap** name of image map to use  
**ismap** image is part of server-side map  
**decoding** sync async auto hint to decode  
**<map>** image map used w/ <a> & <area>  
**name** imagemap used in usemap

## NEXT-GEN IMAGES

**<picture>** multiple image container  
**<source>** new alternative source image  
**src** link to url image source simple mode  
**type** MIME type optional  
**media** media query of resource media

## PICTURE &lt;SOURCE&gt; &amp; &lt;IMG&gt; ATTRIBUTES

**srcset** image list candidates comma-sep  
width a1.jpg 300w, a2.jpg 600w, ...  
**density** b1.jpg 1x, b2.jpg 2x, ...  
**sizes** final rendered width list 640w

## M Multimedia tags

## VIDEO OR AUDIO CONTAINER ELEMENTS

MP4 WEBM HEVC AV1 OGV ← VIDEO  
MP3 AAC OGG OPUS FLAC WAV ← AUDIO

## &lt;video&gt; &lt;audio&gt; media container

**src** link to url video audio source  
**preload** hints how much buffering needs  
auto browser decides  
**metadata** fetch metadata only  
none save bandwidth and no download  
**autoplay** autoplay only if user interact  
loop restart when finished  
muted silence media by default  
controls show play, pause... controls

## ONLY FOR &lt;VIDEO&gt; ELEMENT

**poster** cover image prior to playback  
width height horizontal & vertical size  
**playsinline** browser try play video inline

## VIDEO OR AUDIO CHILDREN ELEMENT

**<source>** new alternative source media  
**src** link to url media source  
**type** MIME type video/mp4; codecs='...'  
**<track>** external subtitles or tracks  
src link to url subtitle resource  
srclang language of the text track  
label user-visible name of the text track  
kind subtitles captions descriptions  
chapters metadata  
default set default enabled track

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| <p><b>E</b> Embedded tags External content</p> <p><b>EXTERNAL CONTENT (IFRAME)</b></p> <p><b>&lt;iframe&gt;</b> embeded content</p> <ul style="list-style-type: none"> <li><b>src</b> link to url resource website, file, ...</li> <li><b>srcdoc</b> document content html syntax</li> <li><b>name</b> name context for <b>target</b> attribute</li> <li><b>loading</b> auto   lazy   eager lazy load iframe</li> <li><b>allowfullscreen</b> allow iframe fullscreen</li> <li><b>allowpaymentrequest</b> allow payments</li> <li><b>width</b>   <b>height</b> horizontal &amp; vertical sizes</li> </ul> <p>&lt;IFRAME&gt; SECURITY, PRIVACY &amp; POLICY ATTRIBUTES</p> <ul style="list-style-type: none"> <li><b>sandbox</b> allow-forms   allow-modals</li> <li>allow-orientation-lock   allow-pointer-lock</li> <li>allow-popups-to-escape-sandbox   allow-scripts</li> <li>allow-same-origin   allow-presentation</li> <li>allow-top-navigation-by-user-activation</li> <li>allow-top-navigation   allow-popups</li> <li><b>allow</b> [feature] allow access to feature</li> <li>ambient-light-sensor   autoplay   accelerometer</li> <li>camera   display-capture   document-domain</li> <li>encrypted-media   fullscreen   geolocation</li> <li>gyroscope   magnetometer   microphone   midi</li> <li>payment   picture-in-picture   speaker   sync-xhr</li> <li>usb   wake-lock   webauthn   vr</li> <li><b>referrerpolicy</b>   <b>mode</b> referer behaviour</li> </ul> <p><b>LEGACY EMBED/OBJECT TAGS</b></p> <p><b>&lt;embed&gt;</b> external non-html content</p> <ul style="list-style-type: none"> <li><b>src</b> link to url resource</li> <li><b>type</b> type of embedded resource</li> <li><b>width</b>   <b>height</b> horizontal &amp; vertical sizes</li> </ul> <p><b>&lt;object&gt;</b> external resource multipurpose</p> <ul style="list-style-type: none"> <li><b>data</b> link to url resource</li> <li><b>type</b> type of embedded resource</li> <li><b>name</b> name context for <b>target</b> attribute</li> <li><b>usemap</b> name of image map to use</li> <li><b>form</b> associates element with form <b>id</b></li> <li><b>width</b>   <b>height</b> horizontal &amp; vertical sizes</li> </ul> <p><b>&lt;param&gt;</b> external resource multipurpose</p> <ul style="list-style-type: none"> <li><b>name</b>   <b>value</b> name &amp; value of parameter</li> </ul> <p><b>EXPERIMENTAL TAGS</b></p> <p><b>&lt;portal&gt;</b> guest embedded content ~iframe</p> <ul style="list-style-type: none"> <li><b>src</b> link to url resource website, file, ...</li> <li><b>referrerpolicy</b>   <b>mode</b> referer behaviour</li> </ul> | <p><b>S</b> SVG tags Scalar Vectorial Graphics</p> <p><b>MAIN TAGS</b></p> <p><b>&lt;svg&gt;</b> svg container standalone svg</p> <ul style="list-style-type: none"> <li><b>viewBox</b>   <b>minx</b>   <b>miny</b>   <b>width</b>   <b>height</b></li> <li><b>width</b>   <b>height</b> viewport size</li> <li><b>preserveAspectRatio</b>   <b>align</b>   <b>option</b></li> <li><b>align</b> none   x***Y***   Min   Mid   Max</li> <li><b>option</b>   <b>meet</b>   <b>slice</b></li> </ul> <p><b>&lt;g&gt;</b> related group container</p> <p><b>SVG METADATA</b></p> <p><b>&lt;title&gt;</b> short text title alternative</p> <p><b>&lt;desc&gt;</b> detailed textual information</p> <p><b>&lt;metadata&gt;</b> metadata elems. container</p> <p><b>CONTENT FOR REUSE</b></p> <p><b>&lt;defs&gt;</b> referenced elements container</p> <p><b>&lt;symbol&gt;</b> set reuse template no render</p> <p><b>&lt;use&gt;</b> reference another element reuse</p> <p><b>href</b> a url link to be cloned for rendering</p> <p><b>&lt;switch&gt;</b> reference another element</p> <p><b>&lt;***&gt;</b> direct child of <b>&lt;switch&gt;</b></p> <p><b>systemLanguage</b>   <b>code</b></p> <p><b>BASIC SHAPES</b></p> <p><b>&lt;rect&gt;</b> define a rectangle</p> <ul style="list-style-type: none"> <li><b>x</b>   <b>y</b> horizontal &amp; vertical position</li> <li><b>width</b>   <b>height</b> horizontal &amp; vertical sizes</li> <li><b>rx</b>   <b>ry</b> horizontal &amp; vertical radius</li> </ul> <p><b>&lt;circle&gt;</b> define a circle</p> <ul style="list-style-type: none"> <li><b>cx</b>   <b>cy</b> horizontal &amp; vertical center coord</li> <li><b>r</b> radius of the circle</li> </ul> <p><b>&lt;ellipse&gt;</b> define a ellipse</p> <ul style="list-style-type: none"> <li><b>rx</b>   <b>ry</b> horizontal &amp; vertical radius</li> <li><b>cx</b>   <b>cy</b> horizontal &amp; vertical center coord</li> </ul> <p><b>&lt;line&gt;</b> define a line segment</p> <ul style="list-style-type: none"> <li><b>x1</b>   <b>y1</b> start point (x,y) of line segment</li> <li><b>x2</b>   <b>y2</b> end point (x,y) of line segment</li> <li><b>pathLength</b> total length of the path</li> </ul> <p><b>&lt;polyline&gt;</b>   <b>&lt;polygon&gt;</b> line / closed shape</p> <ul style="list-style-type: none"> <li><b>points</b> set of coords space-separated</li> <li><b>pathLength</b> total length of the path</li> </ul> <p><b>TEXT &amp; IMAGE ELEMENTS</b></p> <p><b>&lt;text&gt;</b>   <b>&lt;tspan&gt;</b> text layer &amp; text container</p> <ul style="list-style-type: none"> <li><b>x</b>   <b>y</b> start position of text</li> <li><b>dx</b>   <b>dy</b> relative position of descendant</li> <li><b>lengthAdjust</b>   <b>spacing</b>   <b>spacingAndGlyphs</b></li> <li><b>rotate</b>   <b>number</b> rotate degrees per glyph</li> <li><b>textLength</b>   <b>number</b> length per glyph</li> </ul> <p><b>&lt;textPath&gt;</b> put text on path</p> <ul style="list-style-type: none"> <li><b>path</b> equivalent of <b>d</b> attribute   <b>&lt;path&gt;</b></li> <li><b>href</b> url reference to <b>&lt;path&gt;</b></li> <li><b>startOffset</b>   <b>length</b> offset from start path</li> <li><b>method</b> align   stretch how render glyph</li> <li><b>spacing</b> exact   auto space between glyph</li> <li><b>side</b> left   right side of the path to render</li> <li><b>lengthAdjust</b>   <b>spacing</b>   <b>spacingAndGlyphs</b></li> <li><b>textLength</b>   <b>number</b> length per glyph</li> </ul> <p><b>&lt;image&gt;</b> set reference to image</p> <ul style="list-style-type: none"> <li><b>href</b> a url link to image to rendering</li> <li><b>preserveAspectRatio</b>   <b>align</b>   <b>option</b></li> <li><b>crossorigin</b> CORS support</li> </ul> | <p><b>S</b> Scripting tags Javascript elements</p> <p><b>SCRIPTING ELEMENTS</b></p> <p><b>&lt;script&gt;</b> include dynamic script</p> <ul style="list-style-type: none"> <li><b>src</b> link to script.js instead inline script</li> <li><b>type</b> associate fieldset with a form</li> <li><b>text/javascript</b> javascript file default .js</li> <li><b>application/json</b> JSON data block file .json</li> <li><b>module</b> javascript module module .mjs</li> <li><b>nomodule</b> fallback for old browsers</li> <li><b>defer</b> defer script execution</li> <li><b>async</b> exec script when available</li> </ul> <p><b>SECURITY &amp; PRIVACY</b></p> <p><b>referrerpolicy</b>   <b>mode</b> referer behaviour</p> <p><b>crossorigin</b>   <b>mode</b> CORS support</p> <p><b>integrity</b> verify integrity hash of <b>src</b> file</p> <p><b>SCRIPT DOWNLOAD &amp; PARSE MODES</b></p> <table border="1"> <thead> <tr> <th></th> <th>HTML PARSE</th> <th>FETCH</th> <th>EXEC</th> </tr> </thead> <tbody> <tr> <td><b>SCRIPTS</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NORMAL</td> <td>•</td> <td>—</td> <td>—</td> </tr> <tr> <td>DEFER</td> <td>•</td> <td>—</td> <td>—</td> </tr> <tr> <td>ASYNC</td> <td>•</td> <td>—</td> <td>—</td> </tr> <tr> <td><b>MODULES</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NORMAL</td> <td>•</td> <td>—</td> <td>—</td> </tr> <tr> <td>ASYNC</td> <td>•</td> <td>—</td> <td>—</td> </tr> </tbody> </table> <p><b>S</b> Other scripting tags Javascript elements</p> <p><b>JAVASCRIPT-RELATED TAGS</b></p> <p><b>&lt;noscript&gt;</b> show if no scripting enabled</p> <p><b>&lt;template&gt;</b> inert html fragments to clone</p> <p><b>&lt;slot&gt;</b> create separate DOM trees</p> <ul style="list-style-type: none"> <li><b>name</b> name of shadow tree slot</li> <li><b>&lt;canvas&gt;</b> rendering graphs, art, etc...</li> <li><b>width</b>   <b>height</b> horizontal &amp; vertical size</li> <li><b>&lt;custom-elem&gt;</b> user custom element tag</li> </ul> <p><b>S</b> SVG Atts Style SVG attributes</p> <p><b>STYLE SVG ATTRIBUTES</b></p> <p><b>FILL SHAPE</b></p> <ul style="list-style-type: none"> <li><b>fill</b> black   color fills shape with a color</li> <li><b>fill-rule</b> nonzero   evenodd algorithm inside</li> <li><b>fill-opacity</b> 1   opacity alpha channel</li> </ul> <p><b>LINE (STROKE)</b></p> <ul style="list-style-type: none"> <li><b>stroke</b>   none   color set color line</li> <li><b>stroke-width</b>   1   width set width line</li> <li><b>stroke-opacity</b> 1   opacity alpha channel</li> <li><b>stroke-linecap</b> butt   round   square limit type</li> <li><b>stroke-linejoin</b> miter   miter-clip   round   bevel   arcs</li> <li><b>stroke-miterlimit</b> 4   number limit on ratio</li> <li><b>stroke-dasharray</b> none   number array pattern</li> <li><b>stroke-dashoffset</b> 0   number array offset</li> </ul> <p><b>OTHERS (CSS ATTRIBUTES)</b></p> <ul style="list-style-type: none"> <li><b>transform</b>   <b>css transform</b> apply transform</li> <li><b>class</b>   <b>id</b>   <b>style</b> html attributes inherit</li> </ul> |      | HTML PARSE | FETCH | EXEC | <b>SCRIPTS</b> |  |  |  | NORMAL | • | — | — | DEFER | • | — | — | ASYNC | • | — | — | <b>MODULES</b> |  |  |  | NORMAL | • | — | — | ASYNC | • | — | — |
|---|--|---|------|------------|-------|------|----------------|--|--|--|--------|---|---|---|-------|---|---|---|-------|---|---|---|----------------|--|--|--|--------|---|---|---|-------|---|---|---|
|   | HTML PARSE   | FETCH   | EXEC |            |       |      |                |  |  |  |        |   |   |   |       |   |   |   |       |   |   |   |                |  |  |  |        |   |   |   |       |   |   |   |
| <b>SCRIPTS</b>  |  |   |      |            |       |      |                |  |  |  |        |   |   |   |       |   |   |   |       |   |   |   |                |  |  |  |        |   |   |   |       |   |   |   |
| NORMAL  | •  | —   | —    |            |       |      |                |  |  |  |        |   |   |   |       |   |   |   |       |   |   |   |                |  |  |  |        |   |   |   |       |   |   |   |
| DEFER   | •  | —   | —    |            |       |      |                |  |  |  |        |   |   |   |       |   |   |   |       |   |   |   |                |  |  |  |        |   |   |   |       |   |   |   |
| ASYNC   | •  | —   | —    |            |       |      |                |  |  |  |        |   |   |   |       |   |   |   |       |   |   |   |                |  |  |  |        |   |   |   |       |   |   |   |
| <b>MODULES</b>  |  |   |      |            |       |      |                |  |  |  |        |   |   |   |       |   |   |   |       |   |   |   |                |  |  |  |        |   |   |   |       |   |   |   |
| NORMAL  | •  | —   | —    |            |       |      |                |  |  |  |        |   |   |   |       |   |   |   |       |   |   |   |                |  |  |  |        |   |   |   |       |   |   |   |
| ASYNC   | •  | —   | —    |            |       |      |                |  |  |  |        |   |   |   |       |   |   |   |       |   |   |   |                |  |  |  |        |   |   |   |       |   |   |   |