**Html tags:**

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| --- | --- | --- |
| **Tag** | **Description** | **example/syntax** |
| <div> | it occupies a complete width of a doc horizontally | <div class="myDiv">  <h2>This is a heading in a div element</h2>  <p>This is some text in a div element.</p>  </div> |
| <span> | It occupies block up to the content | <p>My mother has <span style="color:blue;font-weight:bold">blue</span> eyes and my father has <span style="color:darkolivegreen;font-weight:bold">dark green</span> eyes.</p>  Output: My mother has blue eyes and my father has dark green eyes. |
| <strong> | Makes text bold | Output; **This text is important!** |
| <p> | makes paragraph tag | <p>Paragraph</p> |

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| --- | --- | --- |
| <q> | makes a quotation text | “Build a future where people live in harmony with nature. “ |
| <iframe scrolling=”” width=” height=”> | insert another website content (nested browsing content) | <iframe src="https://www.w3schools.com" title="W3Schools Free Online Web Tutorials">  </iframe>  Output: |
| <map> | Display image with clickable area | **<map name="workmap">**  **<area shape="rect" coords="34,44,270,350" alt="Computer" href="computer.htm">**  **</map>** |
| <legend> | Defines caption for the fieldset element in form | **<form action="/action\_page.php">**  **<fieldset>**  **<legend>Personalia:</legend>**  **<label for="fname">First name:</label>**  **<input type="text" id="fname" name="fname"><br><br>**  **</fieldset>**  **</form>** |
| <nav> | only for major block of navigation links | <nav>  <a href="/html/">HTML</a> |  <a href="/css/">CSS</a> |  <a href="/js/">JavaScript</a> |  <a href="/jquery/">jQuery</a>  </nav> |
| <br> | make a break in statement | <p>Paragraph <br>text</p> |
| -<img> | inserts image | <img src=””> |
| <form> | Attributes = > | Type attribute values =text,submit,password,button,number,readonly |
| <center> | it centers page horizontally | <center>Content</center> |
| <a> | used for hyperlink | <a href=””>link</a> |
| <i> | Displays icon | <i class=”fas fa-icon”><i/> |
| <pre> | element is displayed in a fixed-width font, and the text preserves both spaces and line breaks. The text will be displayed exactly as written in the HTML source code. | <pre>  Text in a pre element  is displayed in a fixed-width  font, and it preserves  both spaces and  line breaks  </pre>  output:  Text in a pre element  is displayed in a fixed-width  font, and it preserves  both spaces and  line breaks |

**<form> elements:**

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| --- | --- | --- |
| <datalist> | <input list="browsers" name="browser" id="browser">  <datalist id="browsers">  <option value="Edge">  <option value="Firefox">  <option value="Chrome">  <option value="Opera">  <option value="Safari">  </datalist> | It displays both textbox and select box |
| <optgroup> | <select name="cars" id="cars">  <optgroup label="Swedish Cars">  <option value="volvo">Volvo</option>  <option value="saab">Saab</option>  </optgroup>  group related options in a [<select>](https://www.w3schools.com/tags/tag_select.asp) element (drop-down list). |  |
| <output> | The <output> tag is used to represent the result of a calculation (like one performed by a script). | The <output> tag is used to represent the result of a calculation (like one performed by ascript). |
| <legend>  <fieldset> | defines a caption for the [<fieldset>](https://www.w3schools.com/tags/tag_fieldset.asp) element. | **<fieldset>**  **<legend>Personalia:</legend>**  **<label for="fname">First name:</label>**    **</fieldset>** |
| <textarea> | A text area can hold an unlimited number of characters, and the text renders in a fixed-width font (usually Courier).  The size of a text area is specified by the <cols> and <rows> attributes (or with CSS).  Text area is adjustable | **<label for="w3review">Review of W3Schools:</label>**  **<textarea id="w3review" name="w3review" rows="4" cols="50">**  At w3schools.com you will learn how to make a website. They offer free tutorials in all web development technologies.  **</textarea>** |

|  |  |  |
| --- | --- | --- |
| <input> | Used to get the data from user | <input type=”text”> |
| <label> | Users who have difficulty clicking on very small regions (such as checkboxes) - because when a user clicks the text within the <label> element, it toggles the input (this increases the hit area). | <label for=””>username</label> |

**New Elements of HTML5:**

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| --- | --- | --- |
| <canvas> | element is used to draw graphics, on the fly, via JavaScript.You must use JavaScript to actually draw the graphics. | Eg: , boxes, circles, text, |
| <video><audio> | attribute adds video controls, like play, | <video width="320" height="240" controls>  <source src="movie.mp4" type="video/mp4">  <source src="movie.ogg" type="video/ogg">  Your browser does not support the video tag.  </video> |
| <article> | tag specifies independent, self-contained content.  element does not render as anything special in a browser. However, you can use CSS to style | <article>  <h2>Mozilla Firefox</h2>  <p>Mozilla Firefox.</p>  </article> |
| <form> | Used to group the form input elements  Form tag is used in a dynamic web page used to submit a input data to the back end scripting language | <form>  <label for="fname">First name:</label><br>  <input type="text" id="fname" name="fname"><br>  <label for="lname">Last name:</label><br>  <input type="text" id="lname" name="lname">  </form> |

|  |  |  |
| --- | --- | --- |
| <footer> | A <footer> element typically contains:   * authorship information * copyright information | <footer>  <p>Author: Hege Refsnes</p>  <p><a href="mailto:hege@example.com">hege@example.com</a></p>  </footer> |
| <header> | element represents a container for introductory content or a set of navigational links.  <header> cannot be placed within a <footer>, <address> or another <header> element. | <div class="header">  <h1>Header</h1>  <p>My supercool header</p>  </div> |
| <nav> | It contains navigation links  <nav> element is intended only for major links.  Browsers, such as screen readers for disabled users, can use this element to determineto omit the initial rendering | <nav>  <a href="/html/">HTML</a> |  <a href="/css/">CSS</a> |  <a href="/js/">JavaScript</a> |  <a href="/python/">Python</a>  </nav> |
| <section> | defines a section in a document. | <section>  <h2>WWF History</h2>  <p>The World Wide Fund for Nature (WWF) is an international organization working on issues regarding the conservation, research and restoration of the environment, formerly named the World Wildlife Fund. WWF was founded in 1961.</p>  </section> |

|  |  |  |
| --- | --- | --- |
| <keygen> | The name attribute of the <keygen> element is used to reference form data after the form has been submitted.  Represents control for key pair generation. | <form action="/action\_page.php" method="get">  Username: <input type="text" name="usr\_name">  Encryption: <keygen name="security">  <input type="submit">  </form> |
| <meter> | It represents measurement of the disk usage | <meter id="disk\_d" value="0.6">60%</meter> |
| <range> | Input tag used to display the rannge | <input type="range" id="vol" name="vol" min="0" max="50"> |
| <search> | Term to supply to a search engine. For example, the search bar at the top browser. | <input type="search" id="gsearch" name="gsearch"> |
| <aside > | Represents a piece of content that is only slightly related to the rest of the page. | <aside>text</aside> |
| <figure>  <figcaption>  <f/igure> | element to mark up a photo in a document, and a <figcaption> element to define a caption for the photo: | <figure>  <img src="pic\_trulli.jpg" alt="Trulli" style="width:100%">  <figcaption>Fig.1 - Trulli, Puglia, Italy.</figcaption>  </figure> |
| <embed> | Defines external interactive content or plugin. | <embed type="image/jpg" src="pic\_trulli.jpg" width="300" height="200"> |

**Diffrence between html4/html5:**

|  |  |
| --- | --- |
| **html4** | **html5** |
| No vector graphics | Vector graphics is integral part eg:canvas,svg(use js to draw ) |
| No geolocation api | Js geolocation api |
| Browser cache can be used as temporary storage. | Sql db, application cache is able to store in client side |
| Does not allow js run in browser it run in same thread as browser interface | Allow js run in background due to js web worker api in html5 |

**Difference in tags:**

|  |  |  |
| --- | --- | --- |
| **tag** | **Description** | **Syntax and example** |
| <a> | tag either hyperlink or anchor  But in html5 itis only hyperlink | <a href="https://www.w3schools.com">Visit W3Schools.com!</a> |
| <time> | defines date and time | <time datetime="2008-02-14 20:00">Valentines day</time>. |
| <wbr> | defines a possible line break,  When a word is too long, the browser might break it at the wrong place. You can use the <wbr> element to add word break | <p>To learn AJAX, you must be familiar with the XML<wbr>Http<wbr>Request Object.</p> |
| <mark> | highlight with yellow color. | <mark>milk</mark> |
| <progress> | represents progress of a task | <progress id="file" value="32" max="100"> 32% </progress>  Output: |
| <fig caption> | defies caption caption for figure element | <figcaption>Fig.1 - Trulli, Puglia, Italy.</figcaption> |
| <summary> | defies visible healing for a <details> element  Like a dropdown icon. |  |
| <details> | additional details that user can open and close the window  To create interactive widget used to open and close the | <details>  <summary>Epcot Center</summary>  <p>Epcot and seasonal special events.</p>  </details> |

**Media Elements**

<source> multiple resource for media elements

### **Removed Elements**

|  |  |  |
| --- | --- | --- |
| **Tags** | **Instead/description** | **syntax** |
| <frameset> | <iframe> used to embed another document within the current HTML document | <iframe src="https://www.w3schools.com" title="W3Schools Free Online Web Tutorials"> |
| <strike> | <del> used to delete the text  Displays a striked ut text | <p>My favorite color is <del>blue</del> <ins>red</ins>!</p> |
| <applet> | define an embedded applet (plugin)/  Run Java applets   * Run ActiveX controls * Display Flash movies |  |
| <font> | Use css to customise font color and size |  |
| <center> | Used to align the content to center | Now use css to align to center |
| <basefont> | Displays as red color/css |  |
| <dir> | <ul>/ unorderd list | <ul>  <li>html</li>  <li>xhtml</li>  <li>css</li>  </ul> |
| <noframe> | <iframe src=”link”>  as a fallback tag for browsers that did not support frames |  |
| <acronym> | <abbr>  Used to define abbrevation | <p>The <abbr title="World Health Organization">WHO</abbr> was founded in 1948.</p> |
| <tt> | Used to declare type of the text  [<var>](https://www.w3schools.com/tags/tag_var.asp) element (for variables), the [<code>](https://www.w3schools.com/tags/tag_code.asp) element (for computer code), | Use css instead |