HTML5

HTML5 is the next major revision of the HTML standard superseding HTML 4.01, XHTML 1.0, and XHTML 1.1. HTML5 is a standard for structuring and presenting content on the World Wide Web. HTML5 is a cooperation between the World Wide Web Consortium (W3C) and the Web Hypertext Application Technology Working Group (WHATWG).

* Semantic Elements: These are like footer,header,section.
* Non sematic elements : These are like div,span
* Local Storage: To achieve without resorting to third-party plugins.

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| --- | --- | --- | --- |
| Tag name | Tag syntax | description | example |
| Article | <article>…</article> | This element specifies independent, self-contained content | <article class="browser">  <h1>file</h2>  </article> |
| section | <section>….</section> | Structural html element used to group together related elements | <section>  <h1>file</h1>  </section> |
| canvas | <canvas> | This supports a two-dimensional drawing surface | <canvas id="myCanvas" width="200" height="100"></canvas> |
| Aside | <aside>…..</aside> | This tag represents a piece of content that is only slightly related to the rest of the page. | <aside>  <p>This is aside part of the web page</p>  </aside> |
| Dialog | <dialog>…</dialog> | This tag defines a dialog box or subwindow.. | <dialog open>This is an open dialog window</dialog> |
| Figure | <figure> | This tag can be used to associate a caption together with some embedded content, such as a graphic or video. | <figure>  <img src="pic\_trulli.jpg" alt="Trulli" style="width:100%">  </figure> |
| Vector graphics | <svg>….</svg> | It inludes graphics | <svg width="100" height="100">  <circle cx="50" cy="50" r="40" stroke="green" stroke-width="4" fill="yellow" />  </svg> |
| HTML media | <audio>  <video> | Multimedia on the web is sound, music, videos, movies, and animations. |  |
| Math calculation | <math>…</math> | MathML elements to be used inside a document using | <math xmlns = " MathML"> |
| Figure caption | <figurecaption>  ………  <figurecaption> | 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> |
| Mark | <mark>…</mark> | tag defines text that should be marked | <p>Do not forget to buy <mark>milk</mark> today.</p> |
| main | <main>…</main> | main content of the document | <main>  <h1>Most Popular Browsers</h1>  </main> |
| meter | <meter>…..</meter> | Use the meter element to measure data within a given range | <label for="disk\_c">Disk usage C:</label>  <meter id="disk\_c" value="2" min="0" max="10">2 out of 10</meter><br> |
| Ruby | <ruby> ….</ruby> | A ruby annotation is a small extra text, attached to the main text to indicate the pronunciation or meaning of the corresponding characters. | <ruby>  漢 <rt> ㄏㄢˋ </rt>  </ruby> |
| Ruby annotation | <rt>…</rt> | tag defines an explanation or pronunciation of characters | <rt> ㄏㄢˋ </rt> |
| Summary | <summary>  …….</summary> | tag defines a visible heading for the [<details>](https://www.w3schools.com/tags/tag_details.asp) element | <summary>Epcot Center</summary> |
| Output | <output> ….</output> | tag is used to represent the result of a calculation | <output name="x" for="a b"></output> |
| Keygen attribute | <keygen name="*name*"> | element is used to reference form data after the form has been submitted. | Username: <input type="text" name="usr\_name">  Encryption: <keygen name="security">  <input type="submit"> |