HTML  
(Hyper Text Markup Language)

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# AN HTML PAGE STRUCTURE

|  |  |
| --- | --- |
| HTML Syntax | <tag attribute="(property:)value">Text to be displayed</closing-tag> |
| Default Page Structure ('!' + Enter in Visual Studio Code) | <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link rel="stylesheet" type="text/css" href="site.css">  <script src="main.js"></script>  <title>Document</title>  <link href="/favicon.ico" rel="shortcut icon" type="image/x-icon"/>  </head>  <body>  ...  </body>  </html> |

# THE DOCTYPE ELEMENT

|  |  |
| --- | --- |
|  | <!DOCTYPE html> |

# THE HTML ELEMENT

|  |  |
| --- | --- |
| All the Content of the Web Page | <html lang="en">...</html> |

# THE HEAD ELEMENT

|  |  |
| --- | --- |
| Contains Markup not Visible to the User | <head>...</head> |
| Metadata Definitions | <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0"> |
| Links to CSS Documents (Styles Declarations) | <link rel="stylesheet" type="text/css" href="site.css"> |
| Links to JS Documents (Scripts Declarations) | <script src="main.js"></script> |
| Link to JS Documents to Be Executed after the Page Loading | <script src="main.js"></script> <!-- at the end of <body> -->  <script src="main.js" defer="true"></script> <!-- at any place --> |
| Title of the Page | <title>Document</title> |
| Site Icon (Favicon): http://www.favicon-generator.org | <link href="/favicon.ico" rel="shortcut icon" type="image/x-icon"/> |

# THE BODY ELEMENT

|  |  |
| --- | --- |
| Contains Markup Visible to the User | <body>...</body> |
| Structure of the Body Element | <nav>...</nav> |
| Navigation | <nav>  <ul>  <li><a href="about.html">Home</a></li>  <li><a href="about.html">About</a></li>  <li><a href="about.html">Contact</a></li>  </ul>  </nav> |
| Header |  |
| Main (Content + Aside) |  |
| Footer |  |

## SEMANTIC TAGS

|  |  |
| --- | --- |
| Navigation (Defines a Set of Navigation Links) | <nav id="topmenu">  <ul>  <li><a href="about.html">Home</a></li>  <li><a href="about.html">About</a></li>  <li><a href="about.html">Contact</a></li>  </ul>  </nav> |
| Header (Contains the Title) | <header>  <h1>Google buys Nest</h1>  <p>Posted at <time datetime="2014-01-13T11:34">11:34AM, 13th January 2014</p>  </header> |
| Main (Content + Aside) | <main>  <aside>...</aside>  <section>  <article>  <h1>Peter</h1>  </article>  <article>  <h1>Maria</h1>  </article>  </section>  </main> |
| Aside (Defines a Sidebar) | <aside>  <h2>Blogroll</h2>  <ul>  <li><a href="#">My Friend</a></li>  <li><a href="#">My Other Friend</a></li>  <li><a href="#">My Best Friend</a></li>  </ul>  </aside> |
| Footer | <footer>  <p>Posted by: Hege Refsnes</p>  <p>  <a href="mailto:webmaster@example.com">Contact Information</a>  </p>  <p>©copyright</p>  </footer> |
| Figure + Caption | <p>The Puplit Rock is a massive cliff...</p>  <figure>  <img src="img\_pulpit.jpg" alt="The Pulpit Rock Photo">  <figcaption>Fig. 1 – A view of the Pulpit Rock in Norway</figcaption>  </figure> |
| Details | <details>  <summary>Some details</summary>  <p>More info about the details.</p>  </details> |
| Time | <time datetime="2014-01-13T11:34">January 13th, 2014</time> |
|  | <address>  Street Address: Karlstraße 120<br/>  Country Name: Germany<br/>  Tel: +49 1234 5678<br/>  Fax: +49 1234 5679  </address> |
|  | <dialog> |
| Embedding Audio | <audio controls autoplay>  <source src="horse.mp3" type="audio/mpeg">  </audio> |
| Embedding Video | <video controls="controls">  <source src="shuttle.mp4" type="video/mp4">  <source src="shuttle.ogg" type="video/ogg">  Your browser does not support the HTML5 video.  </video> |

## OTHER TAGS

|  |  |
| --- | --- |
| Titles | <h1>The Biggest Heading</h1>  <h6>The Smallest Heading</h6> |
| Paragraph | <p>This is a paragraph.</p> |
| Image (Source File, Alternative Text) | <img src="image.png" alt="Photo of the Team"> |
| Hyperlink (Ctrl + Spacebar to see available documents in VSC) | <a href="about.html">About</a> |
| Button | <button>Click me!</button> |
| Unordered List | <ul>  <li>first list item</li>  <li>second list item</li>  </ul> |
| Ordered List | <ol>  <li>first list item</li>  <li>second list item</li>  </ol> |
| New Line (Not Recommended!) | <br/> |
| Table | <table>  <thead>  <tr>  <th>Name</th>  <th>Age</th>  </tr>  </thead>  <tbody>  <tr>  <td>John</td>  <td>10</td>  </tr>  <tr>  <td>Mark</td>  <td>20</td>  </tr>  </tbody>  <tfoot>  <tr>  <td>Average</td>  <td>15</td>  </tr>  </tfoot>  </table> |
| Merge Columns and Rows | <td colspan="2">Sum: ...</td>  <td rowspan="2">Average: ...</td> |
| Form (Action: the Current Url Path, Method: Post: send a post request, Get: add the fields to the url) | <form action="" method="">  </form> |
| Input Attributes | required  min  max  disabled  pattern  type |

## STYLES

|  |  |
| --- | --- |
| Font (CSS) | <p style="font-family: 'Helvetica', sans-serif;">Text</p> |
| Font Size (CSS) | <p style="font-size: large;">Text</p>  <h1 style="font-size:60px;">Heading 1</h1>  <p style="font-size:160%;">This is a paragraph.</p> |
| Italic (CSS) | <i>This text is italic</i>  <em>This text is italic and semantically emphasized</em> |
| Bold (CSS) | <b>This text is bold</b>  <strong>This text is bold and semantically important</strong> |
|  | <p style="color:red;">This is a red paragraph.</p> |
|  | <p style="text-align:center;">Centered paragraph.</p> |
|  | <body style="background-color:powderblue;">...</body> |
| Smaller Text | <h2>HTML <small>Small</small> Formatting</h2> |
| Highlighted Text | <h2>HTML <mark>Marked</mark> Formatting</h2> |
| Subscripted Text | <p>This is <sub>subscripted</sub> text.</p> |
| Superscripted Text | <p>This is <sup>subscripted</sup> text.</p> |
| Deleted Text (Line Through) | <p>My favorite color is <del>blue</del> red.</p> |
| Inserted Text (Underlined) | <p>My favorite <ins>color</ins> is red.</p> |
| Text on Hover (Tooltip) | <p title="I'm a tooltip">This is a paragraph.</p> |
| Horizontal Line (Rule) | <hr> |
|  |  |
| Preformatted Text | <pre>  If you can fill the unforgiving minute  With sixty seconds’ worth of distance run,  Yours is the Earth and everything that’s in it,  And—which is more—you’ll be a Man, my son!  </pre> |
|  |  |

## HTML ENTITIES (SPECIAL SYMBOLS)

|  |  |
| --- | --- |
| Empty Space ( ) | <p>Here I have a double space&nbsp;&nbsp;between the words.</p> |
| Smaller than (<) | <p>2 &lt; 5</p> |
| Greater than (>) | <p>2 &gt; 0</p> |
| Ampersand (&) | <p>Guns &amp; Roses</p> |
| Quotation Marks (") | &quot; |
| Apostrophe (') | &apos; |
| Number (№) | <p>&numero;</p> |
| Copyright (©) | <p>&copy; All copyrights reserved.</p> |
| Rights Reserved (®) | <p>&reg; All rights reserved.</p> |
| Euro (€) | <p>500 &euro;</p> |
| Pound (£) | <p>500 &pound;</p> |

## DESCRIPTION LISTS

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| --- | --- |
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