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## HTML

HTML (hypertext markup language) is a language for describing so-called hypermedia documents which are used in the WWW.

A markup - also called tag - represents a control element for formatting and placing content (text, images, graphics, video, audio, etc.) within a hypermedia document.

### Structure

DOCTYPE determines the underlying grammar for parsing the document, here: HTML5

```
<!DOCTYPE html>
<html>
  <head>
    <!-->
  </head>
  <body>
    <!-->
  </body>
</html>
```

### Head

```
<head>
  <meta charset="UTF-8">
```

```

<!-- viewport verhindert kleiner Skalierung auf mobilen Geräten -->
<meta name="viewport" content="width=device-x, initial-scale=1.0, user-scalable=no">
<!-- initial-scale: Zoomgrad, user-scalable: kann man zoomen -->
<meta name="robots" content="noindex,nofollow">
<meta name="author" content="Steven">
<meta name="copyright" content="Steven">
<meta http-equiv="expires" content="01 Dec 2006 00:00:00 GMT"> <!-- caching -->

<title>Browser Window Title</title>
<meta name="description" content="description">
<meta name="keywords" content="keyword1, keyword2">

<link rel="stylesheet" type="text/css" href="CSSSum.css"/>
CSS for print view
<link rel="stylesheet" type="text/css" media="print" href="CSSSum.css"/>
<script type="text/javascript" src="urlV"></script>

<style>
    /* Header CSS */
    div { color: red; }
</style>

Load important scripts in head faster
<script type="text/javascript" type="module" src="file.js"></script>
</head>

```

## Body

### Typographie

```

<!--Überschriften:-->
<h1>Überschrift 1</h1>
...
<h6>Überschrift 6</h6>

<!--Schriftdirektiven:-->
<i>kursiv</i> semantisch: <em>kursiv</em>
<b>bold</b> semantisch: <strong>bold</strong>
<u>underline</u>
<mark>mark with color</mark>

<small>small font</small>
<big>big font</big>
<sup>hochgestellt x2</sup>
<sub>tiefgestellt aij</sub>

```

```
<pre>main() { //Darstellung von Quellcode ... }</pre>
```

## Wrapper

```
<p>neuer Absatz, hat ein line break oben & unten</p>
<div>block</div>
<span>inline</span>
```

## Listen

```
<!--Ungeordnete Listen:-->
<ul>
  <li>list item1</li>
  <li>list item2</li>
</ul>

<!--Geordnete Listen:-->
<ol type="A" start="2"> <!-- 1 = numerisch (standard), I = römisch, A = alphabetisch -->
  <li>list item1</li>
  <li>list item2</li>
</ol>

<!--Definitionsliste-->
<dl>
  <dt>Definition title</dt>
  <dd>Definition description</dd>
</dl>
```

## Hyperlinks

```
<a href="/absolute/adresse">Anchor für Verweis auf anderes Hypertext Dokument</a>
<a href="relative/adresse" target="_blank">anchor</a>
<a> <input> </a>
<a> <image> </a>
```

## Forms

```
<!--search for product name GET:-->
<form action="/products" method="GET, POST" novalidate>
  <!--action specifies the location the form data gets processed-->
  <label for="product">Product name:</label><!--for references id-->
  <input type="text, password, email, color, number, url" id="product"
    value="standard value" placeholder="" name="key"
    required disabled readonly checked>
  <!--name attribute is reference for input value: form.key="value"-->

  <!--2 types of submit button:-->
```

```

<input type="submit" value="button text" formnovalidate>
<!--or-->
<button type="submit/reset/button" formaction="/products" name="" value="">
    send
</button>
</form>

```

- blank button with no attributes would work too
- button can be a query parameter with name & value
- type=button, if it isn't a submit button

## Form Elements

```

<textarea rows="2" cols="20">Multiple line input</textarea>
<input type="checkbox" value="1/0" checked/>

<!--radio group-->
<div>
    <label for="radio1">option1</label>
    <input type="radio" id="radio1" value="option1" name="group" checked>
    <input type="radio" value="option2" name="group">
    <!--grouping with name attribute-->
</div>

<!--dropdown/combobox-->
<select name="key" multiple>
    <option value="value1" selected>option1</option>
    <option>option2</option> <!--value will be by default="option2"-->
</select>

```

## Image

```


<!--alt = Text der angezeigt wird, falls Image nicht geladen wird-->

```

## Tables

```

<table>
    <tr colspan="2">table row with max width</tr><!--colspan merges columns-->
    <tr>
        <th>head1</th><th>head2</th>
    </tr>
    <tr>
        <td rowspan="2">data1</td><td>data2</td><!--rowspan merges rows-->
    </tr>
</table>
<!--or-->

```

```

<table>
  <caption>table name</caption>
  <thead>
    <tr><th>head1</th><th>head2</th></tr>
  </thead>
  <tbody>
    <tr><td>data1</td><td>data2</td></tr>
  </tbody>
  <tfoot>
    <tr><td colspan="2">footer</td></tr>
  </tfoot>
</table>

```

## Misc

```

<br> <!--break line-->
<hr> <!--horizontal ruler, vertical divider-->

<fieldset>
  <legend>Umrahmung mit Titel</legend>
  <child></child>
</fieldset>

```

```

<!--HTML Entities: Use of reserved symbols-->
&lt; = "<"
&gt; = ">"
&amp; = "&"
&nbsp; = whitespace

```

## CSS Usage

```

<!--class-->
<div id="id_name" class="class_name"></div>
<!--inline-->
<div style="color: red; border: 1px solid black"></div>

```

## JS Usage

```

<!--with tag-->
<script>
  console.log();
</script>

<!--inline-->
<input type="button" onclick='console.log();'>

<!--link-->

```

```
<a href="javascript:console.log();">Test</a>

<!--external-->
<script type="text/javascript" type="module" src="file.js"></script>
```