Table of contents

- Table of contents
- Simple document
- Quike facts
- Tags inside head
 - Title
 - Encoding
 - Description
 - Words for search engines
 - Author
 - How to refresh every n seconds
 - Viewport
 - Connect to stylesheet
 - Base path for all relational path and links
- body tags
 - Link (a)
 - target attribute
 - Link as a picture
 - Link as bookmark
 - Image
 - Map from the image
 - Paragraph
 - Horizontal line
 - Headings
 - Line break
 - Text block
 - Text mark
 - Quotes
 - Quote
 - Quote block
 - Abbreviation
 - Address
 - Title of book, article or post
 - Change text direction
 - Table
 - Combine two cells horizontally
 - Combine two cells vertically
 - Table header
 - Lists
 - Unordered list
 - List inside list
 - Ordered list
 - Change view of the ordered list
 - Description List

- Div blocks
- Not blocks span
- Frame
- Code
- Keyboard or voice input
- Program output (samp)
- Var variable
- Layout
- Forms
 - Input arguments
 - Text input
 - Radio button
 - Button Submit. To send data forms to a server.
 - FieldSet. Group of inputs.
 - Combobox
 - TextArea
 - Button to action
 - Text input with combobox and suggestions

Simple document

Quike facts

- Html case insensitive. <P> and '
 - > are the same
- According to the HTML5 standard the html, <body>, and head tags can be omitted.

Tags inside head

Title

```
<title>My First HTML</title>
```

Encoding

when you use russian language (or other non-english) encoding is mandatory

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

Description

```
<meta name="description" content="Free Web tutorials">
```

Words for search engines

```
<meta name="keywords" content="HTML, CSS, XML, JavaScript">
```

Author

```
<meta name="author" content="John Doe">
```

How to refresh every n seconds

```
<meta http-equiv="refresh" content="30">
```

Viewport

Element responsible for change size of the page depending on size of the screen

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```



Without the viewport meta tag



With the viewport meta tag

dignissim qui blandit praesent luptatum zzril delenit augue duis dolore te feugait nulla facilisi. Nam liber tempor cum soluta nobis eleifend ontion conque nihil imperdiet doming

Connect to stylesheet

when css in current folder

```
k rel="stylesheet" href="styles.css">
```

when css file is on external resource

```
<link rel="stylesheet" href="[]
(https://www.w3schools.com/html/styles.css)"\>
```

When stylesheet in the head element in style tag

```
<style>
body {background-color: powderblue;}
h1 {color: red;}
p {color: blue;}
</style>

<script>
function myFunction {
document.getElementById("demo").innerHTML = "Hello JavaScript!";
}
</script>
```

Base path for all relational path and links

```
<base href="https://www.w3schools.com/images/" target="_blank">
```

```
<!DOCTYPE html>
<html>
   <head>
     <title>Page Title</title>
     <base href="https://www.w3schools.com/images/" target="_blank">
   </head>
<body>
   <img src="html5.gif">
   >
       Since we have specified a base URL, the browser will look for the
image "html5.gif" at "https://www.w3schools.com/images/html5.gif"
   >
       <a href="https://www.w3schools.com">W3Schools</a>
   The link above opens in a new window. This is because the base
target is set to "_blank".
</body>
</html>
```

body tags

Link (a)

```
<a href="https://www.w3schools.com">This is a link</a>
```

target attribute

- _blank Open link in a new window
- _self Open link in current window (by default)
- _parent Opens the linked document in the parent frame
- _top Opens the linked document in the full body of the window
- framename Opens the linked document in a named frame

Link as a picture

```
<a href="default.asp">
    <img src="smiley.gif" alt="HTML
```

```
tutorial" style="width:42px;height:42px;border:0;">
</a>
```

Link as bookmark

```
<h2 id="C4">Chapter 4</h2>
<a href="#C4">Jump to Chapter 4 in current document</a>
<a href="html_demo.html#C4">Jump to Chapter 4 in another document</a>
```

Image

```
<img src="w3schools.jpg" alt="W3Schools.com">
```

Map from the image

Paragraph

Paragraph with tooltip

```
    This is the text of the paragraph
```

Horizontal line

```
<h1>This is heading 1</h1>
This is some text.
<hr>
<h2>This is heading 2</h2>
This is some other text.
<hr>
<hr>
```

Headings

- Heading h1 h6.
- Use should use it only for heading and not for highlighting of text. Search engines look at the headings

Line break

Line break. Good to use inside the

```
<br/><br/><
```

Text block

In this block spaces are not ignored

Text mark

```
<mark>Bright yellow text</mark>
<b> bold text </b>
<em>emphasized text</em>
<i> italic text </i>
<small> smaller text </small>
<strong> bold text </strong>
<sub> subscripted text </sub>
<sup> superscripted text </sup>
<ins> inserted text </ins>
<del> deleted text </del>
```

Output:

Bright yellow text

bold text

emphasized text

italic text

smaller text

bold text

subscripted text

superscripted text

inserted text

deleted text

Quotes

Quote

```
WWF's goal is to: <q>Build a future where people live in harmony with nature.
```

It's quite common for browser just add "

Quote block

```
Here is a quote from WWF's website:
<blookquote cite="http://www.worldwildlife.org/who/index.html">
For 50 years, WWF has been protecting the future of nature.
The world's leading conservation organization,
WWF works in 100 countries and is supported by
1.2 million members in the United States and
close to 5 million globally.
</blockquote>
```

Abbreviation

```
The <abbr title="World Health Organization">WHO</abbr> was founded in 1948.
```

Address

```
<address>
Written by John Doe.<br>
Visit us at:<br>
Example.com<br>
Box 564, Disneyland<br>
USA
</address>
```

It's common to display as italic text

Title of book, article or post

```
<cite>The Scream</cite> by Edvard Munch. Painted in 1893.
```

It's common to display as italic text

Change text direction

```
<bdo dir="rtl">This text will be written from right to left</bdo>
```

Table

- trrow
- · th cell of head
- td cell of table body

```
Firstname
  Lastname
  Age
 Jill
  Smith
  50
 Eve
  Jackson
  94
```

Combine two cells horizontally

```
        >Name
        Colspan="2">Telephone
```

```
    >Bill Gates
    >55577854
    >55577855
    >55577855
    > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > <td
```

Combine two cells vertically

Table header

```
<caption>Monthly savings</caption>
```

Lists

Unordered list

list item

```
Coffee
Tea
Milk
```

List inside list

```
CoffeeTea
```

```
    Black tea
    Green tea

Milk
```

Elements can be text, lists and other tags such as images and links

Ordered list

```
  Coffee
  Tea
  Milk
```

Change view of the ordered list

```
  Coffee
  Tea
  Milk
```

- type="1" The list items will be numbered with numbers (default)
- type="A" The list items will be numbered with uppercase letters
- type="a" The list items will be numbered with lowercase letters
- type="I" The list items will be numbered with uppercase roman numbers
- type="i" The list items will be numbered with lowercase roman numbers

Description List

A Description List

Coffee

- black hot drink

Milk

- white cold drink

Div blocks

```
<div></div>
```

Not blocks span

```
<span></span>
```

Frame

```
<iframe src="URL"></iframe>
```

Delete border in frame

```
<iframe src="demo_iframe.htm" style="border:none;"></iframe>
```

Possible to use with the link. When link pushed then the contents shows in the frame

Code

```
<code>
x = 5;<br>
```

```
y = 6;<br>
z = x + y;
</code>
```

Keyboard or voice input

```
     Save the document by pressing <kbd>Ctrl + S</kbd>
```

Program output (samp)

```
If you input wrong value, the program will return <samp>Error!</samp>
```

Var - variable

```
The area of a triangle is: 1/2 x <var>b</var> x <var>h</var>, where <var>b</var> is the base, and <var>h</var> is the vertical height.
```

Layout

There a lot of means to layout page

- Table. Actually it's a bed old practice
- Css Framework like Bootstrap
- Using css float

```
clear: left;
               text-align: center;
           }
           nav {
               float:left;
               max-width: 160px;
               margin: 0;
               padding: 1em;
           }
           nav ul {
               list-style-type: none;
               padding: 0;
           }
           nav ul a {
               text-decoration: none;
           }
           article {
               margin-left: 170px;
               border-left: 1px solid gray;
               padding: 1em;
               overflow: hidden;
           }
       </style>
   </head>
   <body>
       <div class="container">
           <header>
               <h1>City Gallery</h1>
           </header>
           <nav>
             <l
               <a href="#">London</a>
               <a href="#">Paris</a>
               <a href="#">Tokyo</a>
             </nav>
           <article>
             <h1>London</h1>
             London is the capital city of England. It is the most
populous city in the United Kingdom, with a metropolitan area of over 13
million inhabitants.
             Standing on the River Thames, London has been a major
settlement for two millennia, its history going back to its founding by the
Romans, who named it Londinium.
           <footer>Copyright W3Schools.com</footer>
       </div>
   </body>
</html>
```

• CSS Flexbos Included in CSS3

Forms

Teg <form> use as a container for user inputs

```
<form>
.
user inputs
.
</form>
```

Input arguments

Method argument to interact with a server

- get
- post

```
<form action="/action_page.php"method="get"\>
```

type argument for type of input

- text Text input
- radio Radio button
- submit Button

name argument to recognize this input. Mandatory argument

```
<input type="text" name="firstname" value="Mickey">
<input type="text" name="lastname" value="Mouse">
```

to server: firstname=Mickey&lastname=Mouse

Text input

Default width 20 characters

```
<form>
First name:<br>
<input type="text" name="firstname"><br>
Last name:<br>
<br/>
Last name:<br/>
<br/>
Last name:<br/>
<br/>
<br/>
Last name:<br/>
<br/>
Last name:<br/>
<br/>
<br/>
Last name:<br/>
<br/>
<br/>
Last name:<br/>
<br/>
<br/>
Last name:<br/>
<br/>
<
```

```
<input type="text" name="lastname">
</form>
```

Radio button

```
<form>
<input type="radio" name="gender" value="male" checked> Male<br>
<input type="radio" name="gender" value="female"> Female<br>
<input type="radio" name="gender" value="other"> Other</r>
</form>
```

Button Submit. To send data forms to a server.

```
<form action="/action_page.php">
  First name:<br>
  <input type="text" name="firstname" value="Mickey"><br>
  Last name:<br>
  <input type="text" name="lastname" value="Mouse"><br>
  <input type="submit" value="Submit">
  </form>
```

FieldSet. Group of inputs.

Personal information	
First name:	
Mickey	
Last name:	
Mouse	
Submit	

```
<select name="cars">
  <option value="volvo">Volvo</option>
  <option value="saab">Saab</option>
  <option value="fiat">Fiat</option>
  <option value="audi">Audi</option>
  </select>
```



to select default valut

```
<option value="fiat" selected>Fiat</option>
```

TextArea

```
<textarea name="message" rows="10" cols="30">
The cat was playing in the garden.
</textarea>
```

Button to action

```
<button type="button" onclick="alert('Hello World!')">Click Me!</button>
```

Text input with combobox and suggestions

```
<form action="/action_page.php">
  <input list="browsers">
  <datalist id="browsers">
  <option value="Internet Explorer">
  <option value="Firefox">
  <option value="Chrome">
  <option value="Opera">
  <option value="Safari">
  </datalist>
  </form>
```

