

RoR -Leipzig HTML



Was ist HTML?

→ HTML (HyperText Markup Language) ist eine plattformunabhängige Dokumentbeschreibungssprache, in der Webseiten geschrieben sind.



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Was soll ich von HTML lernen?

1. HTML Tags
 - Pfade
 - Navigation und Links
 - Forms
2. CSS
 - Farbe
 - Struktur
3. JavaScript/Jquery
 - (wäre schön zu haben)

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1- HTML Tags

- 1.1 – Headings


```
<!DOCTYPE html>
<html>
<body>
  <h1>This is heading h1</h1>
  <h2>This is heading h2</h2>
  <h3>This is heading h3</h3>
</body>
</html>
```
- 1.2 – Paragraphs


```
<!DOCTYPE html>
<html>
<body>
  <p>This is a Paragraph</p>
  <p>This is another
  Paragraph</p>
</body>
</html>
```
- 1.3 – Links


```
<!DOCTYPE html>
<html>
<body>
  <a href="https://github.com/fejao/RoR-
  Leipzig">This is a link example</a>
</body>
</html>
```
- 1.4 – Images


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

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1- HTML Tags

- 1.5 – Titles


```
<!DOCTYPE html>
<html>
<body>
  <p title="I'm a tooltip">
    This is a paragraph with title.
  </p>
</body>
</html>
```
- 1.6 – Sizes


```
<!DOCTYPE html>
<html>
<body>
  
</body>
</html>
```
- 1.7 – Alt


```
<!DOCTYPE html>
<html>
<body>
  
</body>
</html>
```
- 1.8 – Header


```
<!DOCTYPE html>
<html>
<head>
  <title> This is the page Title example </title>
</head>
<body>
  <p> Here will be the page </p>
</body>
</html>
```

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1- HTML Tags

• 1.9 – Background

```
<!DOCTYPE html>
<html>
<body style="background-color:powderblue;">
  <h1>This is a heading</h1>
  <p>This is a paragraph.</p>
</body>
</html>
```

• 1.10 – Text

```
– Color
<h3 style="color:red;">I am red</h3>
– Size
<p style="font-size:160%;">This is a
paragraph.</p>
– Type
<p style="font-family:courier;">This is a
paragraph.</p>
– Aligment
<h1 style="text-align:center;">Centered
Heading</h1>
```

• 1.11 – Formatting

```
– Bold
  <b>Bold text</b>
– Strong
  <strong>Important text</strong>
– Italic
  <i>Italic text</i>
– Emphasized
  <em>Emphasized text</em>
– Marked
  <mark>Marked text</mark>
– Small Text
  <small>Small text</small>
– Deleted Text
  <del>Deleted text</del>
– Inserted Text
  <ins>Inserted text</ins>
– Subscript Text
  <sub>Subscript text</sub>
– Superscript Text
  <sup>Superscript text</sup>
```

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1- HTML Tags

• 1.12 – Computer Code

```
<!DOCTYPE html>
<html>
<body>
  <code>
    var x = 5;
    var y = 6;
    document.getElementById("demo").innerHTML = x + y;
  </code>
</body>
</html>
```

• 1.13 – Variables

```
<!DOCTYPE html>
<html>
<body>
  Einstein wrote:
  <var>E</var> =
  <var>m</var><var>c</var><sup>2</sup>.
</body>
</html>
```

• 1.14 – Comments

```
<!DOCTYPE html>
<html>
<body>
  <!-- This is a comment -->
  This is the minimal expected from a HTML page
</body>
</html>
```

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1- HTML Tags

- 1.15 – List Unordered

- Normal

```
<ul>
  <li>Coffee</li>
  <li>Tea</li>
</ul>
```

- Disc

```
<ul style="list-style-type:disc">
  <li>Coffee</li>
  <li>Tea</li>
</ul>
```

- Circle

```
<ul style="list-style-type:circle">
  <li>Coffee</li>
  <li>Tea</li>
</ul>
```

- Square

```
<ul style="list-style-type:square">
  <li>Coffee</li>
  <li>Tea</li>
</ul>
```

- None

```
<ul style="list-style-type:none">
  <li>Coffee</li>
  <li>Tea</li>
</ul>
```

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1- HTML Tags

- 1.16 – List Ordered

- Normal

```
<ol>
  <li>Coffee</li>
  <li>Tea</li>
</ol>
```

- Numbers

```
<ol type=1>
  <li>Coffee</li>
  <li>Tea</li>
</ol>
```

- Uppercase Letters

```
<ol type=A>
  <li>Coffee</li>
  <li>Tea</li>
</ol>
```

- Lowercase Letters

```
<ol type=a>
  <li>Coffee</li>
  <li>Tea</li>
</ol>
```

- Uppercase Roman

```
<ol type=I>
  <li>Coffee</li>
  <li>Tea</li>
</ol>
```

- Lowercase Roman

```
<ol type=i>
  <li>Coffee</li>
  <li>Tea</li>
</ol>
```

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1- HTML Tags

- 1.17 Blocks

- Divs

```
<!DOCTYPE html>
<html>
<body>
  <div style="background-color:black;color:white;padding:20px;">
    <h2>London</h2>
    <p>
      London is the capital city of England.</p>
  </div>
  <div style="background-color:yellow;color:red;padding:100px;">
    <h2>Berlin</h2>
    <p>
      Berlin is the capital city of Germany.
    </p>
  </div>
</body>
</html>
```

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1- HTML Tags

- 1.17 Blocks

- Span

```
<!DOCTYPE html>
<html>
<body>
  <h1>My <span style="color:red">Important</span> Heading</h1>
  <h1>My <span style="color:orange">Not so Important</span> Heading</h1>
</body>
</html>
```

- 1.18 Classes

```
<!DOCTYPE html>
<html>
<body>
  <div class="cities">
    <h1>Cities</h1>
    <h2>London</h2>
    <p>London is the capital of England. </p>
  </div>
</body> </html>
```

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1- HTML Tags

- 1.19 Forms

```
<!DOCTYPE html>
<html>
<body>
  <form>
    First name:
    <input type="text" name="firstname">
    <br>
    Last name:
    <input type="text" name="lastname">
  </form>
</body>
</html>
```

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1- HTML Tags

- 1.20 What should be avoided

- iFrames: http://www.w3schools.com/jsref/dom_obj_frame.asp

```
<iframe src="http://www.google.com"></iframe>
```

- Tables : http://www.w3schools.com/tags/tag_table.asp

```
<table>
<tr>
  <th>Month</th>
  <th>Savings</th>
</tr>
<tr>
  <td>January</td>
  <td>$100</td>
</tr>
</table>
```

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2- CSS

- 2.1 Inline

```
<!DOCTYPE html>
<html>
<head>
  <style>
    body {
      background-color: powderblue;
    }
    h1 {
      color: blue;
    }
    p {
      color: red;
    }
  </style>
</head>
<body>
  <h1>This is a heading</h1>
  <p>This is a paragraph.</p>
</body>
</html>
```

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2- CSS

- 2.2 From File

- File index.html

```
<!DOCTYPE html>
<html>
<head>
  <link rel="stylesheet" href="my_css.css">
</head>
<body>
  <h1>This is a heading</h1>
  <p>This is a paragraph.</p>
</body>
</html>
```

- File **my_css.css**

```
body {
  background-color: powderblue;
}
h1 {
  color: blue;
}
p {
  color: red;
}
```

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3- JavaScript

- 3.1 Example 1: Date


```
<!DOCTYPE html>
<html>
<body>
  <h1>My First JavaScript Date Example</h1>
  <button type="button" onclick="document.getElementById('demo').innerHTML = Date()">
    Click me to display Date and Time.
  </button>
  <p id="demo"></p>
</body> </html>
```
- 3.1 Example 2: Alert


```
<!DOCTYPE html>
<html>
<body>
  <h1>JavaScript Alert Example</h1>
  <button type="button" onclick="myAlert();" > Alert </button>
  <script>
    function myAlert() {
      alert("Hello! I am an alert box!!!")
    }
  </script>
</body>
</html>
```

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Extras

- HTML5
 - Camera
 - https://fejao.github.io/RoR-Leipzig/01_HTML_Presentation/Pages/HTML5/camera/stream.html
 - https://fejao.github.io/RoR-Leipzig/01_HTML_Presentation/Pages/HTML5/camera/snapshot.html
 - Games
 - https://fejao.github.io/RoR-Leipzig/01_HTML_Presentation/Pages/HTML5/games/game_1/index.html
 - https://fejao.github.io/RoR-Leipzig/01_HTML_Presentation/Pages/HTML5/games/game_2/index.html
 - <http://missile-game.bwhmather.com/>
- WebGL
 - Camera
 - https://fejao.github.io/RoR-Leipzig/01_HTML_Presentation/Pages/WebGL/index.html

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Links

- My WebPage with all
 - <https://fejao.github.io/RoR-Leipzig/>
- HTML course
 - <http://www.jgiesen.de/javascript/HTML/index.htm>
- Good site to get all information about HTML
 - <http://www.w3schools.com/>