RoR –Leipzig HTML

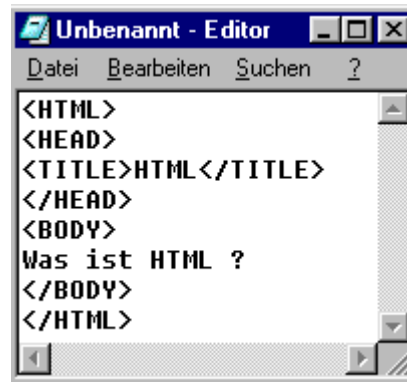## Was ist HTML?

→HTML (HyperText Markup Language) ist eine plattformunabhängige Dokumentbeschreibungssprache, in der Web-Seiten geschriben sind.

```
Unbenannt - Editor
Datei  Bearbeiten  Suchen  ?
<HTML>
<HEAD>
<TITLE>HTML</TITLE>
</HEAD>
<BODY>
Was ist HTML ?
</BODY>
</HTML>
```

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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>
      <img src="rails.png">
  </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>
    <img src="rails.png"
  alt="http://rubyonrails.org/" width="104"
  height="142">
  </body>
  </html>
  ```

- **1.7 – Alt**

  ```
  <!DOCTYPE html>
  <html>
  <body>
    <img src="rails.png" alt="http://rubyonrails.org/">
  </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>
    **
Coffee
**
    **
Tea
**
    **
**

  - **Disc**

    <ul style="list-style-type:disc">
    **
Coffee
**
    **
Tea
**
    **
**

  - **Circle**

    <ul style="list-style-type:circle">
    **
Coffee
**
    **
Tea
**
    **
**

  - **Square**

    <ul style="list-style-type:square">
    <**
Coffee
**
    **
Tea
**
    **
**

  - **None**

    <ul style="list-style-type:none">
    **
Coffee
**
    **
Tea
**
    **
**

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1- HTML Tags

- **1.16 – List Ordered**
  - **Normal**

    <ol>
      **
Coffee
**
      **
Tea
**
    **
**

  - **Numbers**

    <ol type=1>
      **
Coffee
**
      **
Tea
**
    **
**

  - **Uppercase Letters**

    <ol type=A>
      **
Coffee
**
      **
Tea
**
    **
**

  - **Lowercase Letters**

    <ol type=a>
      <**
Coffee
**
      **
Tea
**
    **
**

  - **Uppercase Roman**

    <ol type=I>
      **
Coffee
**
      **
Tea
**
    **
**

  - **Lowercase Roman**

    <ol type=i>
      **
Coffee
**
      **
Tea
**
    **
**

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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"**>**

  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 scr="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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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/