HTML – HyperText Markup Language

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WASA · HTML – HyperText Markup Language · Prof. Emanuele Panizzi · Sapienza University of Rome

1

HTML

- Since 1991, now HTML 5.2
- Standard markup language for web pages
- description language (not procedural)

HTML element

```
<tagname>
  content
</tagname>
```

HTML structure

```
<html>

    <head>

        <title>Page title</title>

    </head>

    <body>

        <h1>This is a heading</h1>

        <p>This is a paragraph.</p>

        <p>This is another paragraph.</p>

    </body>

</html>
```

Example

```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>
<h1>Heading</h1>
<p>A paragraph.</p>
<p>A
longer
paragraph.
</p>
</body>
</html>
```

Some elements

- `<h1></h1>..<h6></h6>` headings
- `<p></p>` paragraph
- `<br>` line break (no end tag)
- `<a></a>` link (aka hyperlink)
- `<img>` image (no end tag)
- `<div></div>` section
- `<span></span>` section
- `<iframe></>`

- `<ul></ul>` unordered list
- `<ol></ol>` ordered list
- `<li></li>` list item
- `<table></table>`
- `<tr></tr>` table row
- `<td></td>` row element
- `<th></th>` heading element

```
<h1>Haikus</h1>
<h2>"The Old Pond"
by Matsuo Bash </h2>
<p>
An old silent pond<br><br>
A frog jumps
into the pond—<br><br>
Splash! Silence again.
</p>
```

Haikus

"The Old Pond" by Matsuo Bashō

An old silent pond

A frog jumps into the pond—

Splash! Silence again.

Links

```
<a href="http://gamificationlab.uniroma1.it/wasa">
Our course
</a>
```

- The href attribute specifies the destination URL

Attributes

- provide additional information about elements
- always specified in the start tag
- name/value pairs like: name="value"

```
<img
src="logo-sapienza.png"
alt="Sapienza's logo"
width="250px"
>
```


- The src attribute specifies the path to the image
- alt specifies an alternate text
- width: size can be relative to the container the image is in

Table

```html
<table>
  <tr>
    <th>Room</th>
    <th>Places</th>
  </tr>
  <tr>
    <td>1L</td>
    <td>120</td>
  </tr>
  <tr>
    <td>2L</td>
    <td>96</td>
  </tr>
</table>
```

Room	**Places**
1L	120
2L	96

Lists

```
<ul>
<li> Alice </li>
<li> Bob </li>
</ul>

<ol>
<li> Alice </li>
<li> Bob </li>
</ol>
```

- Alice
- Bob

1. Alice
2. Bob

Nesting tags

```
<table>
<tr><td><a
href="https://www.uniroma1.it"
>
<img
src="logo-sapienza.png"
alt="Sapienza's logo"
width="150px"
>
</a></td></tr>
</table>
```

References

- https://www.w3.org/standards/webdesign/htmlcss
- https://en.wikipedia.org/wiki/HTML
- https://www.w3schools.com/html/default.asp