

Introduction to Basic HTML

What is HTML

Hyper **T**ext **M**arkup **L**anguage (HTML) is a language to describe the page structure.

Include **Head** and **Body**. **Head** includes Title, Meta-info, CSS, JavaScript libraries. **Body** holds contents of the page.

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     ...
5   </head>
6   <body>
7     ...
8   </body>
9 </html>
```

HTML Tags

Opening Tag + Closing Tag, for example:

```
1 <p> ... </p>
```

The character(s) in <> declare the tag's purpose.

Attributes can also be added to provide additional information, for example, when we need a reference to an URL,

```
1 <a href="https://edav.info">EDAV</a>.
```

Start from the Beginning ...

<html>: Indicates this is a HTML document.

<head>: Include title, styles and other specifications.

<body>: Contains contents of the HTML document.

Markup the Text

HTML Tag	Usage/Meaning
<h1> to <h6>	Largest to smallest headings
<p>	Indicate a paragraph
<code>	Indicate code inside
 	Line break
<hr>	Thematic break
	Bold text
	Strong text
<i>	<i>Italic</i> text
	<i>Emphasized</i> text
<sup>	Super ^{script}
<sub>	Sub _{script}
<ins>	Insert text
	Deleted text
<s>	Text that no longer correct

Lists

Ordered list:

```
1 <ol>
2   <li>item 1</li>
3   <li>item 2</li>
4 </ol>
```

Unordered list:

```
1 <ul>
2   <li>item 1</li>
3   <li>item 2</li>
4 </ul>
```

Nested list:

```
1 <ol>
2   <li>item 1</li>
3   <ol>
4     <li>sub-item 1.1</li>
5   </ol>
6 </ol>
```

Tables

HTML Tag	Usage/Meaning
<table>	Indicate a table
<caption>	Caption of the table
<tr>	Start of a row
<th>	Heading of the table
<td>	Indicate a table cell

Forms

HTML Tag	Usage/Meaning
<form>	Indicate a form
<input type="[type]">	Input field of a specific [type]

SVG

Start with:

```
1 <svg width="[w]" height="[h]">
2   ...
3 </svg>
```

Inside the <svg> .. </svg>: Can draw different types of shapes. For example,

```
1 <rect width="200" height="150"
   style="fill:red;
   stroke-width:1; stroke:yellow"
   />
```

Also, one can draw any shape with **path**, "M x y" indicates start at (x,y), "L x₁ y₁" means drawing a straight line from the starting point to (x₁,y₁).

"C cx₀ cy₀, cx₁ cy₁, x₁ y₁" draws a curve from the starting point to (x₁,y₁), with (cx₀,cy₀) and (x₁,cy₁) control the curvature of the curve; check [html.examples.html](#) for more straight-forward interpretation.