



# What is HTML?



# HTML

**HTML** stands for Hyper Text Markup Language

**HTML** is the standard markup language for creating Web pages

**HTML** describes the structure of Web pages using markup



@eliasFsDev



@codingwithelias



# What is HTML?



# HTML

**HTML** stands for Hyper Text Markup Language

**HTML** is the standard markup language for creating Web pages

**HTML** describes the structure of Web pages using markup



@eliasFsDev



@codingwithelias



## HTML Document Structure



```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <title>title</title>
6 </head>
7 <body>
8     <h1>Hello, World</h1>
9 </body>
10 </html>
```



@eliasFsDev



@codingwithelias



## HTML Document Structure



```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <title>title</title>
6 </head>
7 <body>
8   <h1>Hello, World</h1>
9 </body>
10 </html>
```



## HTML Elements



HTML elements are the building blocks of HTML pages

HTML elements are represented by tags

HTML element usually consists of a start tag and end tag, with the content inserted in between

<tagname>Content goes here...</tagname>



@eliasFsDev



@codingwithelias



## HTML Elements



HTML elements are the building blocks of HTML pages

HTML elements are represented by tags

HTML element usually consists of a start tag and end tag, with the content inserted in between

<tagname>Content goes here...</tagname>



@eliasFsDev



@codingwithelias



## HTML Images



In HTML, images are defined with the `<img>` tag.

The `src` attribute specifies the URL (web address) of the image

The `alt` attribute provides an alternate text for an image, if the user for some reason cannot view it.

```

```



URL



@eliasFsDev



@codingwithelias



## HTML Images



In HTML, images are defined with the `<img>` tag.

The `src` attribute specifies the URL (web address) of the image

The `alt` attribute provides an alternate text for an image, if the user for some reason cannot view it.

```

```



URL



@eliasFsDev



@codingwithelias



## HTML Lists



An unordered list starts with the `<ul>` tag.  
Each list item starts with the `<li>` tag

```
1 <ul>
2   <li>Coffee</li>
3   <li>Milk</li>
4 </ul>
```

Output

- Coffee
- Milk

An ordered list starts with the `<ol>` tag.  
Each list item starts with the `<li>` tag

```
1 <ol>
2   <li>Coffee</li>
3   <li>Milk</li>
4 </ol>
```

Output

1. Coffee
2. Milk



@eliasFsDev



@codingwithelias



## HTML Lists



An unordered list starts with the `<ul>` tag.  
Each list item starts with the `<li>` tag

```
1 <ul>
2   <li>Coffee</li>
3   <li>Milk</li>
4 </ul>
```

Output

- Coffee
- Milk

An ordered list starts with the `<ol>` tag.  
Each list item starts with the `<li>` tag

```
1 <ol>
2   <li>Coffee</li>
3   <li>Milk</li>
4 </ol>
```

Output

1. Coffee
2. Milk



## HTML Links



Links allow users to click their way from page to page

You can click on a link and jump to another document.

```
<a href="fast.com">Home</a>
```



URL



link text



@eliasFsDev



@codingwithelias



## HTML Links



Links allow users to click their way from page to page

You can click on a link and jump to another document.

```
<a href="fast.com">Home</a>
```



URL



link text



@eliasFsDev



@codingwithelias



## Inline Elements



The default display value for most elements is **block** or **inline**.

An **inline** element does not start on a new line and only takes up as much width as necessary.

```
<a><abbr><acronym><b><bdo><big><br>
<button><cite><code><dfn><em><i><img>
<input><kbd><label><map><object><q>
<samp><select><small><span><strong>
<sub><sup><textarea><time><tt><var>
```



@eliasFsDev



@codingwithelias



## Inline Elements



The default display value for most elements is **block** or **inline**.

An **inline** element does not start on a new line and only takes up as much width as necessary.

```
<a><abbr><acronym><b><bdo><big><br>
<button><cite><code><dfn><em><i><img>
<input><kbd><label><map><object><q>
<samp><select><small><span><strong>
<sub><sup><textarea><time><tt><var>
```



@eliasFsDev



@codingwithelias



## HTML Attributes



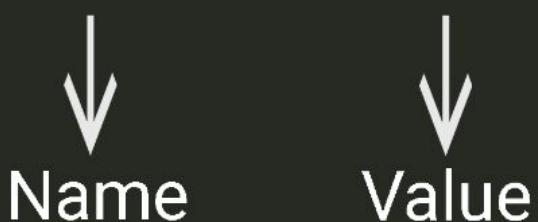
All **HTML** elements can have **attributes**

**Attributes** provide additional information about an element

**Attributes** are always specified in the start tag

**Attributes** usually come in **name/value** pairs  
like: name="value"

```
<div class="btn"></div>
```



@eliasFsDev



@codingwithelias



## HTML Attributes



All **HTML** elements can have **attributes**

**Attributes** provide additional information about an element

**Attributes** are always specified in the start tag

**Attributes** usually come in **name/value pairs**  
like: `name="value"`

```
<div class="btn"></div>
```





## Style Attribute



Setting the style of an HTML element,  
can be done with the **style** attribute.

Value



```
<h1 style="color:red;"></h1>
```



Property



@eliasFsDev



@codingwithelias



## Style Attribute



Setting the style of an HTML element,  
can be done with the **style** attribute.

Value



```
<h1 style="color:red;"></h1>
```



Property



@eliasFsDev



@codingwithelias



## Symbols



Many mathematical, technical, and currency symbols, are not present on a normal keyboard.

To add such symbols to an HTML page, you can use an HTML entity name.

**&copy;** <=> © COPYRIGHT SIGN

**&reg;** <=> ® REGISTERED SIGN

**&trade;** <=> ™ REGISTERED SIGN

**&sum;** <=> Σ N-ARY SUMMATION



@eliasFsDev



@codingwithelias



## Symbols



Many mathematical, technical, and currency symbols, are not present on a normal keyboard.

To add such symbols to an HTML page, you can use an HTML entity name.

**&copy;** <=> © COPYRIGHT SIGN

**&reg;** <=> ® REGISTERED SIGN

**&trade;** <=> ™ REGISTERED SIGN

**&sum;** <=> Σ N-ARY SUMMATION



@eliasFsDev



@codingwithelias



## Block Elements



The default display value for most elements is **block** or **inline**.

A **block-level element** always starts on a new line and takes up the full width available (stretches out to the left and right as far as it can).

```
<address><article><aside><blockquote>
<canvas><dd><div><dl><dt><fieldset>
<figcaption><figure><footer><form>
<h1>-<h6><header><hr><li><main><nav>
<noscript><ol><output><p><pre>
<section><table><tfoot><ul><video>
```



@eliasFsDev



@codingwithelias



## Block Elements



The default display value for most elements is **block** or **inline**.

A **block-level** element always starts on a new line and takes up the full width available (stretches out to the left and right as far as it can).

```
<address><article><aside><blockquote>
<canvas><dd><div><dl><dt><fieldset>
<figcaption><figure><footer><form>
<h1>-<h6><header><hr><li><main><nav>
<noscript><ol><output><p><pre>
<section><table><tfoot><ul><video>
```



@eliasFsDev



@codingwithelias



## HTML Iframes



An iframe is used to display a web page within a web page.

```
<iframe
```

```
    src="ab.html" → URL  
    height="200"  
    width="300">
```

```
</iframe>
```



@eliasFsDev



@codingwithelias



## HTML Iframes



An iframe is used to display a web page within a web page.

```
<iframe  
    src="ab.html" → URL  
    height="200"  
    width="300">  
</iframe>
```



## Meta / Programming Tags



- <**head**> Defines information about the document
- <**meta**> Defines metadata about an HTML document
- <**base**> Specifies the base URL/target for all relative URLs in a document
- <**script**> Defines a client-side script
- <**noscript**> Defines an alternate content for users that do not support client-side scripts
- <**embed**> Defines a container for an external (non-HTML) application
- <**object**> Defines an embedded object
- <**param**> Defines a parameter for an object



@eliasFsDev



@codingwithelias



## Meta / Programming Tags



- <**head**> Defines information about the document
- <**meta**> Defines metadata about an HTML document
- <**base**> Specifies the base URL/target for all relative URLs in a document
- <**script**> Defines a client-side script
- <**noscript**> Defines an alternate content for users that do not support client-side scripts
- <**embed**> Defines a container for an external (non-HTML) application
- <**object**> Defines an embedded object
- <**param**> Defines a parameter for an object



@eliasFsDev



@codingwithelias



## Form Tags / 1



**<form>** Defines an HTML form for user input

**<input>** Defines an input control

**<textarea>** Defines a multiline input control  
(text area)

**<button>** Defines a clickable button

**<select>** Defines a drop-down list

**<optgroup>** Defines a group of related options  
in a drop-down list



@eliasFsDev



@codingwithelias



## Form Tags / 1



**<form>** Defines an HTML form for user input

**<input>** Defines an input control

**<textarea>** Defines a multiline input control  
(text area)

**<button>** Defines a clickable button

**<select>** Defines a drop-down list

**<optgroup>** Defines a group of related options  
in a drop-down list



@eliasFsDev



@codingwithelias



## Lists / Frames Tags



**<ul>** Defines an unordered list

**<ol>** Defines an ordered list

**<li>** Defines a list item

**<dl>** Defines a description list

**<dt>** Defines a term/name in a description list

**<dd>** Defines a description of a term/name in a description list

**<iframe>** Defines an inline frame



@eliasFsDev



@codingwithelias



## Lists / Frames Tags



**<ul>** Defines an unordered list

**<ol>** Defines an ordered list

**<li>** Defines a list item

**<dl>** Defines a description list

**<dt>** Defines a term/name in a description list

**<dd>** Defines a description of a term/name in a description list

**<iframe>** Defines an inline frame



@eliasFsDev



@codingwithelias



## Semantic Tags / 2 - Style



**<data>** Links the given content with a machine-readable translation

**<summary>** Defines a visible heading for a **<details>** element

**<details>** Defines additional details that the user can view or hide

**<dialog>** Defines a dialog box or window

**<style>** Defines style information for a document



@eliasFsDev



@codingwithelias



## Semantic Tags / 2 - Style



**<data>** Links the given content with a machine-readable translation

**<summary>** Defines a visible heading for a **<details>** element

**<details>** Defines additional details that the user can view or hide

**<dialog>** Defines a dialog box or window

**<style>** Defines style information for a document



@eliasFsDev



@codingwithelias



## Formatting Tags / 3



<pre> Defines preformatted text

<progress> Represents the progress  
of a task

<q> Defines a short quotation

<rp> Defines what to show in browsers  
that do not support ruby annotations

<rt> Defines an explanation/pronunciation of  
characters (for East Asian typography)

<ruby> Defines a ruby annotation  
(for East Asian typography)

<s> Defines text that is no longer correct

<samp> Defines sample output from a computer  
program

<small> Defines smaller text



@eliasFsDev



@codingwithelias



## Formatting Tags / 3



**<pre>** Defines preformatted text

**<progress>** Represents the progress  
of a task

**<q>** Defines a short quotation

**<rp>** Defines what to show in browsers  
that do not support ruby annotations

**<rt>** Defines an explanation/pronunciation of  
characters (for East Asian typography)

**<ruby>** Defines a ruby annotation  
(for East Asian typography)

**<s>** Defines text that is no longer correct

**<samp>** Defines sample output from a computer  
program

**<small>** Defines smaller text



@eliasFsDev



@codingwithelias



## Semantic Tags / 1



**<header>** Defines a header for a document or section

**<footer>** Defines a footer for a document or section

**<main>** Specifies the main content of a document

**<section>** Defines a section in a document

**<aside>** Defines content aside from the page content

**<article>** Defines an article

**<div>** Defines a section in a document

**<span>** Defines a section in a document



@eliasFsDev



@codingwithelias



## Semantic Tags / 1



**<header>** Defines a header for a document or section

**<footer>** Defines a footer for a document or section

**<main>** Specifies the main content of a document

**<section>** Defines a section in a document

**<aside>** Defines content aside from the page content

**<article>** Defines an article

**<div>** Defines a section in a document

**<span>** Defines a section in a document



@eliasFsDev



@codingwithelias



## Form Tags / 2



**<output>** Defines the result of a calculation

**<datalist>** Specifies a list of pre-defined options for input controls

**<legend>** Defines a caption for a **<fieldset>** element

**<fieldset>** Groups related elements in a form

**<label>** Defines a label for an **<input>** element

**<option>** Defines an option in a drop-down list



@eliasFsDev



@codingwithelias



## Form Tags / 2



**<output>** Defines the result of a calculation

**<datalist>** Specifies a list of pre-defined options for input controls

**<legend>** Defines a caption for a **<fieldset>** element

**<fieldset>** Groups related elements in a form

**<label>** Defines a label for an **<input>** element

**<option>** Defines an option in a drop-down list



@eliasFsDev



@codingwithelias



## Audio / Video/ Links Tags



**<a>** Defines a hyperlink

**<nav>** Defines navigation links

**<audio>** Defines sound content

**<video>** Defines a video or movie

**<link>** Defines the relationship between a document and an external resource  
(most used to link to style sheets)

**<source>** Defines multiple media resources for media elements (**<video>**, **<audio>** and **<picture>**)

**<track>** Defines text tracks for media elements  
(**<video>** and **<audio>**)



@eliasFsDev



@codingwithelias



## Audio / Video/ Links Tags



**< a >** Defines a hyperlink

**< nav >** Defines navigation links

**< audio >** Defines sound content

**< video >** Defines a video or movie

**< link >** Defines the relationship between a document and an external resource  
(most used to link to style sheets)

**< source >** Defines multiple media resources for media elements (**< video >**, **< audio >** and **< picture >**)

**< track >** Defines text tracks for media elements  
(**< video >** and **< audio >**)



## Formatting Tags / 1



- <abbr>** Defines an abbreviation or an acronym
- <address>** Defines contact information for the author/owner of a document/article
- <cite>** Defines the title of a work
- <b>** Defines bold text
- <bdi>** Isolates a part of text that might be formatted in a different direction from other text outside it
- <bdo>** Overrides the current text direction
- <code>** Defines a piece of computer code
- <blockquote>** Defines a section that is quoted from another source



@eliasFsDev



@codingwithelias



## Formatting Tags / 1



- <abbr>** Defines an abbreviation or an acronym
- <address>** Defines contact information for the author/owner of a document/article
- <cite>** Defines the title of a work
- <b>** Defines bold text
- <bdi>** Isolates a part of text that might be formatted in a different direction from other text outside it
- <bdo>** Overrides the current text direction
- <code>** Defines a piece of computer code
- <blockquote>** Defines a section that is quoted from another source



@eliasFsDev



@codingwithelias



## Formatting Tags / 4



<**strong**> Defines important text

<**sub**> Defines subscripted text

<**sup**> Defines superscripted text

<**template**> Defines a template

<**time**> Defines a date/time

<**u**> Defines text that should be stylistically different from normal text

<**var**> Defines a variable

<**wbr**> Defines a possible line-break



@eliasFsDev



@codingwithelias



## Formatting Tags / 4



**<strong>** Defines important text

**<sub>** Defines subscripted text

**<sup>** Defines superscripted text

**<template>** Defines a template

**<time>** Defines a date/time

**<u>** Defines text that should be stylistically different from normal text

**<var>** Defines a variable

**<wbr>** Defines a possible line-break



@eliasFsDev



@codingwithelias



## Basic HTML Tags



<!DOCTYPE> Defines the document type

<html> Defines an HTML document

<head> Defines information about the document

<title> Defines a title for the document

<body> Defines the document's body

<p> Defines a paragraph

<br> Inserts a single line break

<hr> Defines a thematic change in the content

<h1> - <h1> Defines HTML headings

<!-- . . . --> Defines a comment



@eliasFsDev



@codingwithelias



## Basic HTML Tags



<!DOCTYPE> Defines the document type

<html> Defines an HTML document

<head> Defines information about the document

<title> Defines a title for the document

<body> Defines the document's body

<p> Defines a paragraph

<br> Inserts a single line break

<hr> Defines a thematic change in the content

<h1> - <h1> Defines HTML headings

<!-- --> Defines a comment



@eliasFsDev



@codingwithelias



## Images Tags



**<img>** Defines an image

**<map>** Defines a client-side image-map

**<area>** Defines an area inside an image-map

**<canvas>** Used to draw graphics, on the fly,  
via scripting (usually JavaScript)

**<svg>** Defines a container for SVG graphics

**<picture>** Defines a container for multiple  
image resources

**<figure>** Specifies self-contained content

**<figcaption>** Defines a caption for a  
**<figure>** element



@eliasFsDev



@codingwithelias



## Images Tags



**<img>** Defines an image

**<map>** Defines a client-side image-map

**<area>** Defines an area inside an image-map

**<canvas>** Used to draw graphics, on the fly,  
via scripting (usually JavaScript)

**<svg>** Defines a container for SVG graphics

**<picture>** Defines a container for multiple  
image resources

**<figure>** Specifies self-contained content

**<figcaption>** Defines a caption for a  
**<figure>** element



@eliasFsDev



@codingwithelias



## Formatting Tags / 2



- <del>** Defines text that has been deleted from a document
- <dfn>** Represents the defining instance of a term
- <em>** Defines emphasized text
- <mark>** Defines marked/highlighted text
- <i>** Defines a part of text in an alternate voice or mood
- <ins>** Defines a text that has been inserted into a document
- <kbd>** Defines keyboard input
- <meter>** Defines a scalar measurement within a known range (a gauge)



@eliasFsDev



@codingwithelias



## Formatting Tags / 2



- <del>** Defines text that has been deleted from a document
- <dfn>** Represents the defining instance of a term
- <em>** Defines emphasized text
- <mark>** Defines marked/highlighted text
- <i>** Defines a part of text in an alternate voice or mood
- <ins>** Defines a text that has been inserted into a document
- <kbd>** Defines keyboard input
- <meter>** Defines a scalar measurement within a known range (a gauge)



@eliasFsDev



@codingwithelias



## Tables Tags



**<table>** Defines a table

**<caption>** Defines a table caption

**<th>** Defines a header cell in a table

**<tr>** Defines a row in a table

**<td>** Defines a cell in a table

**<thead>** Groups the header content in a table

**<tbody>** Groups the body content in a table

**<tfoot>** Groups the footer content in a table

**<col>** Specifies column properties for each column within a **<colgroup>** element

**<colgroup>** Specifies a group of one or more columns in a table for formatting



@eliasFsDev



@codingwithelias



## Tables Tags



**<table>** Defines a table

**<caption>** Defines a table caption

**<th>** Defines a header cell in a table

**<tr>** Defines a row in a table

**<td>** Defines a cell in a table

**<thead>** Groups the header content in a table

**<tbody>** Groups the body content in a table

**<tfoot>** Groups the footer content in a table

**<col>** Specifies column properties for each column within a **<colgroup>** element

**<colgroup>** Specifies a group of one or more columns in a table for formatting



@eliasFsDev



@codingwithelias