

HTML TEMPLATE

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <title>Page Title</title>
  <meta name="description" content="DESCRIBE PAGE">
  <meta name="author" content="NAME">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
</head>
<body>
  <!-- CONTENT HERE -->
</body>
</html>
```

HTML TAGS & ELEMENTS

Element Syntax Example: <p> tag	<openTag> Content </closeTag> <p>This is a paragraph</p>
Attribute Syntax: Example: src attribute	<tag attribute=value >Content</tag>
Class attribute	<tag class ="className">
Id attribute	<tag id ="idName">
Image Element	
Largest heading Smallest heading	<h1>Main Heading</h1> <h6>Small Heading</h6>
Line break	
Monospace fixed width	<pre>Preserves whitespace and lines</pre>
Defines a block-level div	<div>
Defines an in-line span	
Define bold/strong text	 /
Define italic/emphasized text	<i> /

HTML Comment	<code><!-- Commented out --></code>
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LINKING

Hyperlink	<code>Link Text</code>
Relative Path	<code></code>
Absolute Path	<code></code>
Target attribute New tab/window: Same tab/window: Opens in named tab:	<code></code> <code></code> <code></code>
External CSS	<code><link rel="stylesheet" href="styles/filename.css"></code>
External JavaScript	<code><script type="text/javascript" src="file.js"></script></code>

HTML FORM

form attributes

A name that can be referred to by client-side or server-side code	name
The URL of the file that will process the data in the form	action
The HTTP method (GET or POST) for submitting the form data	method
Specifies where to open the submitted result (same or new window)	target

input attributes

Specifies the type of field (text, password, submit, radio, hidden, etc)	type
Default value for the field, appears in the text field or button	value
The maximum number of characters that the user can enter in the field	maxlength
Boolean attribute that tells the browser to set the focus on the field	autofocus
A default value/hint in the field. The value is removed when given focus	placeholder
Each input field must have a name attribute to be submitted	name
Boolean attribute that causes control to be checked when page loads	checked
Specifies the width of the input element in characters, default = 20	size

Specifies an input field must be filled out before submitting the form	required
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input types

Defines a one-line text input field	<code><input type="text"></code>
Defines a radio button (for selecting one of many choices)	<code><input type="radio"></code>
Defines a checkbox (for selecting 0 or more options)	<code><input type="checkbox"></code>
Defines a submit button (for submitting the form)	<code><input type="submit"></code>
Defines a text field where input is masked by bullet points	<code><input type="password"></code>
Defines a button that resets all values to their default values	<code><input type="reset"></code>
Defines a date selector which pops up to select a date value	<code><input type="date"></code>
Defines a number selector with arrows to choose numbers	<code><input type="number"></code>
Defines a file-select field and a "Browse" button for file uploads	<code><input type="file"></code>
Defines a text input field with some email format verification	<code><input type="email"></code>

number & date inputs

Set date range (Between 1980 and 2000)	<code><input type="date" min="1979-12-31" max="2000-01-02"></code>
Set numeric range (Between 1 and 10)	<code><input type="number" min="1" max="10"></code>
Specifies the numeric intervals	<code><input type="number" step="2"></code>

textarea element & attributes

Defines a multi-line input field (a text area)	<code><textarea></code>
Specifies the visible number of lines in a text area	<code><textarea rows=number></code>
Specifies the visible width of a text area	<code><textarea cols=number></code>

button element & attributes

Defines a clickable button	<code><button></code>
Specifies the type of the button	<code><button type="button"></code>
Specifies the action when the button is clicked.	<code><button onclick=action></code>

Define an image as a submit button	<code><input type="image" src="arrow.jpg" alt="Submit" width=x height=y></code>
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label element

Defines a label for a form element	<code><label>Text</label></code>
Specify which form element the label is for	<code><label for="tag_id">Text</label></code>
Example: Create label for a radio checkbox	<code><input type="radio" id="html" name="fav_language" value="HTML"> <label for="html">HTML</label>
</code>

Example (Login form):

```
<form action="/login" method="post">
  <label for="name">Username:</label>
  <input type="text" id="name" name="user_name" />

  <label for="pass">Password:</label>
  <input type="password" id="pass" name="user_pass" />

  <button type="reset">Reset</button>
  <button type="submit">Log In</button>
</form>
```

drop-down list & listboxes elements

Defines a drop-down list	<code><select></code>
Displays a list box the size of the specified number	<code><select size=number></code>
Boolean attribute which allows multiple values to be selected	<code><select multiple></code>
Defines options that can be selected	<code><option></code>
Boolean attribute which defines a pre-selected option	<code><option selected></code>

Example (Drop-down Menu):

```
<form action="/action_page.php">
  <select name="numbers">
    <option value="1" selected >One</option>
    <option value="2">Two</option>
    <option value="2">Three</option>
  </select>
```

```
</form>
```

HTML TABLES

Create table	<code><table></table></code>
Create row	<code><table> <tr>Example Row</tr> </table></code>
Create heading	<code><table> <tr> <th>Example Heading</th> </tr> </table></code>
Create column (Data cell)	<code><table> <tr> <td>Example Column</td> </tr> </table></code>
Span multiple columns	<code><td colspan="number"></td></code>
Span multiple rows	<code><td rowspan="number"></td></code>
Table sections: Table head: Table body: Table foot:	<code><table> <thead><!-- Table head rows/cols --></thead> <tbody><!-- Table body rows/cols --></tbody> <tfoot><!-- Table foot rows/cols --></tfoot> </table></code>

Example:

Name	Height x Width	
Monet	500	750
Van Gogh	800	1200

```
<table style="width:100%" border="1px  
solid black">  
  <tr>  
    <th>Name</th>  
    <th colspan=2>Height x Width</th>  
  </tr>  
  <tr>  
    <td>Monet</td>  
    <td>500</td>  
    <td>750</td>  
  </tr>  
  <tr>  
    <td>Van Gogh</td>  
    <td>800</td>  
    <td>1200</td>  
  </tr>  
</table>
```

HTML LISTS

NAME	HTML	EXAMPLE
Unordered List	<pre> Item 1 Item 2 </pre>	<ul style="list-style-type: none"> Item2 Item2
Ordered List	<pre> Item 1 Item 2 </pre>	<ol style="list-style-type: none"> Item1 Item2
Description List	<pre><dl> <dt>Item1</dt> <dd>Explanation</dd> <dt>Item2</dt> <dd>Explanation</dd> </dl></pre>	<div>Item1</div> <div>Explanation</div> <div>Item2</div> <div>Explanation</div>

IFRAMES

Iframe element	<code><iframe src="https://link.html"></iframe></code>
Set width & height	<code><iframe src="https://link.html" width=x height=y></iframe></code>
Remove border	<code><iframe src="https://link.html" frameborder="0"></iframe></code>
Open link in iframe	<code><iframe name="example"></iframe></code> <code>link</code>
Embed video link	<code><iframe src="https://www.youtube.com/embed/videolink"></iframe></code>

SEMANTIC HTML

NAME	TAG	<pre> <header> <nav> <section> <article> <aside> <footer> </pre>
Header	<code><header></code>	
Navigation	<code><nav></code>	
Section	<code><section></code>	
Article	<code><article></code>	
Aside	<code><aside></code>	
Footer	<code><footer></code>	

HTML HEAD

Define tab/window title	<title>Page Title</title>
Create favicon (Image beside page title)	<link rel="icon" type="image/x-icon" href="favicon.ico">
Create base link Example: Link will go to www.base.com/help.html	<base href="https://www.base.com/"> Help
meta element	
Define character set	<meta charset="UTF-8">
Keywords for search engines	<meta name="keywords" content="key1, key2, ...">
Page description	<meta name="description" content="Describe me">
Define page author	<meta name="author" content="John Doe">
Set viewport (responsiveness)	<meta name="viewport" content="width=device-width, initial-scale=1.0">

ENTITIES

Result	Name	Entity Character	Entity Number
	Non-breaking Space	 	
<	Less Than	<	<
>	Greater than	>	>
&	Ampersand	&	&
"	Double Quotation Mark	"	"
'	Single Quotation Mark	'	'