



# Introduction to HTML5



# **Introduction to HTML5**

## **Hypertext Markup Language 5**



# Introduction to HTML5

## Hypertext Markup Language 5

What Does HTML5 Mean?



# Introduction to HTML5

## Hypertext Markup Language 5

What Does HTML5 Mean?

**Hypertext Markup Language 5** (HTML5) is a markup language for the structure and presentation of World Wide Web contents.

HTML5 supports the traditional HTML and XHTML-style syntax and other new features in its mark.



# Features of HTML

- ✓ Learning is very easy (easy to modify).
- ✓ Adding Links where we can add references.
- ✓ Display documents on platforms like Mac, Windows, Linux etc.
- ✓ Adding videos & graphics, making it more attractive.
- ✓ Case-insensitive language.



## HTML5 editors



Simple editor: Notepad



ATOM



SUBLIME TEXT EDITOR



VISUAL STUDIO CODE



**RECOMMENDED**



# Structure of an HTML5 file

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
      

  </body>
</html>
```



# Structure of an HTML5 file

1



```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
      

  </body>
</html>
```





# Structure of an HTML5 file

1

2

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
      

  </body>
</html>
```



# Structure of an HTML5 file

1 →

2 {

3 {

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
      

  </body>
</html>
```



# Structure of an HTML5 file

The diagram illustrates the structure of an HTML5 file with the following code and annotations:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
    
  </body>
</html>
```

Annotations:

- 1**: Points to the `<!DOCTYPE html>` declaration.
- 2**: A bracket indicating the entire `<html>` structure, from `<html>` to `</html>`.
- 3**: A bracket indicating the `<head>` section, from `<head>` to `</head>`.
- 4**: A bracket indicating the meta tags within the head, specifically `<meta charset="UTF-8" />`, `<meta http-equiv="X-UA-Compatible" content="IE=edge" />`, and `<meta name="viewport" content="width=device-width, initial-scale=1.0" />`.



# Structure of an HTML5 file

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
    
  </body>
</html>
```

The diagram illustrates the structure of an HTML5 file with the following annotations:

- 1**: Points to the `<!DOCTYPE html>` declaration.
- 2**: A bracket indicating the entire `<html>` structure, from `<html>` to `</html>`.
- 3**: A bracket indicating the `<head>` section, from `<head>` to `</head>`.
- 4**: A bracket indicating the meta tags within the head: `<meta charset="UTF-8" />`, `<meta http-equiv="X-UA-Compatible" content="IE=edge" />`, and `<meta name="viewport" content="width=device-width, initial-scale=1.0" />`.
- 5**: Points to the `<title>Document</title>` tag.



# Structure of an HTML5 file

The diagram illustrates the structure of an HTML5 file with the following code and annotations:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
  </body>
</html>
```

Annotations:

- 1**: Points to the `<!DOCTYPE html>` declaration.
- 2**: A bracket grouping the `<html>` tag and its closing `</html>` tag.
- 3**: A bracket grouping the `<head>` and `</head>` sections.
- 4**: A bracket grouping the three `<meta>` tags.
- 5**: Points to the `<title>` tag.
- 6**: A bracket grouping the `<body>` and `</body>` sections.



# File and folder structure

## *Files and Folders*

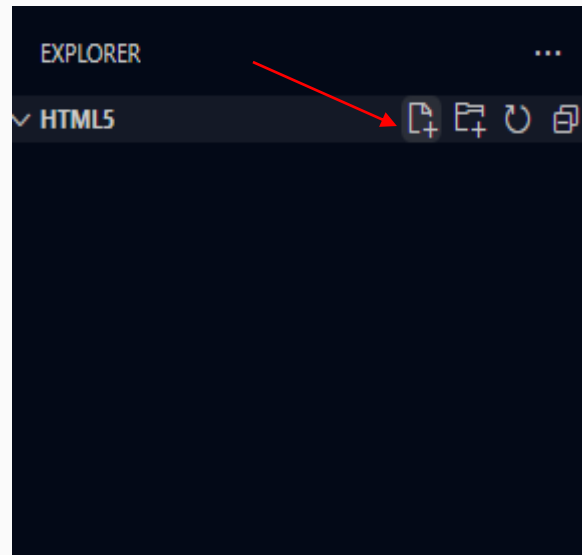
**Project (Root) Folder:** This is the main folder for the project and contains all other files and folders. On the web, it's called the root folder.

**HTML files:** These are all of the files that end with .html

These should be directly in the Project/Root folder and not in any sub folders.

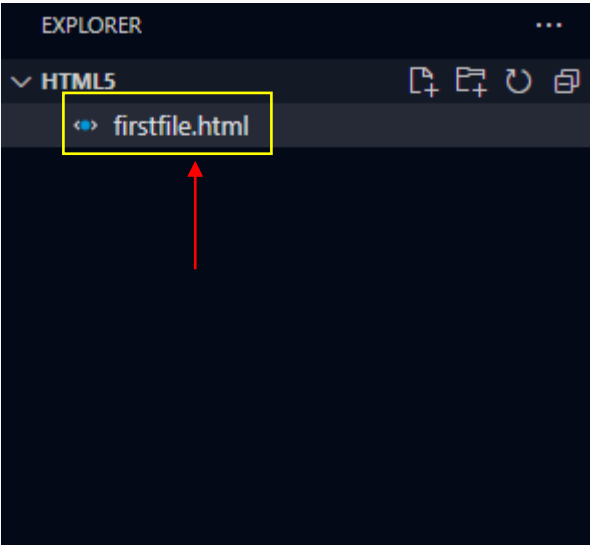
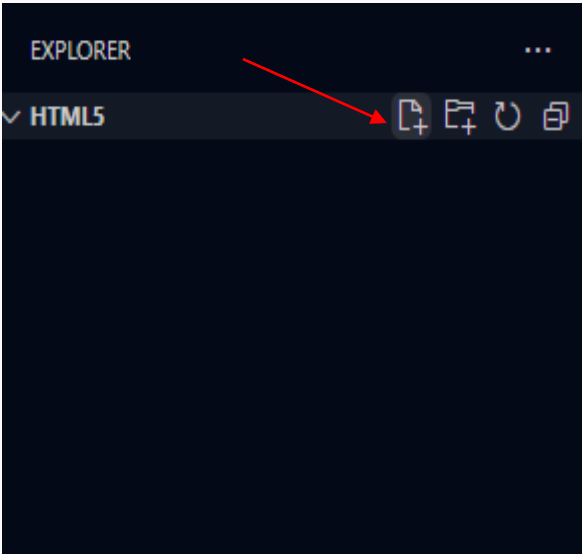


# How to create an HTML5 file?





# How to create an HTML5 file?







# Heading Tags in HTML

- `<h1>Heading 1</h1>`
- `<h2>Heading 2</h2>`
- `<h3>Heading 3</h3>`
- `<h4>Heading 4</h4>`
- `<h5>Heading 5</h5>`
- `<h6>Heading 6</h6>`



# HTML5 Quotation and Citation tags

- `<b>` - Bold text
- `<strong>` - Important text
- `<i>` - Italic text
- `<em>` - Emphasized text
- `<mark>` - Marked text
- `<small>` - Smaller text
- `<del>` - Deleted text
- `<ins>` - Inserted text
- `<sub>` - Subscript text
- `<sup>` - Superscript text



# How to style in HTML5?

`<font>write any tag</font>`

Font tag helps  
us give color to  
the text



# Commenting out code in HTML5

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8 </head>
9 <body>
10 <h1>Hello world</h1>
11 </body>
12 </html>
```

Without comment

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8 </head>
9 <body>
10 <!-- <h1>Hello world</h1> -->
11 </body>
12 </html>
```

With comment

Press ctrl + /



# HTML5 attributes

- All HTML elements can have **attributes**
- Attributes provide **additional information** about elements
- Attributes are always specified in **the start tag**
- Attributes usually come in name/value pairs like **name="value"**

**Width , Height &  
color**


**Form attributes**

**Inline CSS**

**Class and ID**



# What are anchor tags?



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## Bill Gates

From Wikipedia, the free encyclopedia

*This article is about the co-founder of Microsoft. For other people of the same name, see [Bill Gates \(disambiguation\)](#).*

**William Henry Gates III** (born October 28, 1955) is an American [business magnate](#), software developer, investor, author, and philanthropist. He is a co-founder of [Microsoft](#), along with his late childhood friend [Paul Allen](#).<sup>[2][3]</sup> During his career at Microsoft, Gates held the positions of [chairman](#), [chief executive officer](#) (CEO), [president](#) and [chief software architect](#), while also being the largest individual [shareholder](#) until May 2014.<sup>[4]</sup> He is considered one of the best known entrepreneurs of the [microcomputer revolution](#) of the 1970s and 1980s.



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# What are anchor tags?



The screenshot shows the Wikipedia article for Bill Gates. A green box highlights the title "Bill Gates" with the text "These are hyperlinks". Red arrows point to several hyperlinks in the text: "Bill Gates (disambiguation)", "business magnate", "Microsoft", "Paul Allen", "chairman", "chief executive officer (CEO)", "president", "chief software architect", "shareholder", and "microcomputer revolution".

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# What are paragraph tags?

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
    <p>
      Lorem ipsum dolor sit amet consectetur adipisicing elit. Quasi, deleniti.
    </p>
  </body>
</html>
```

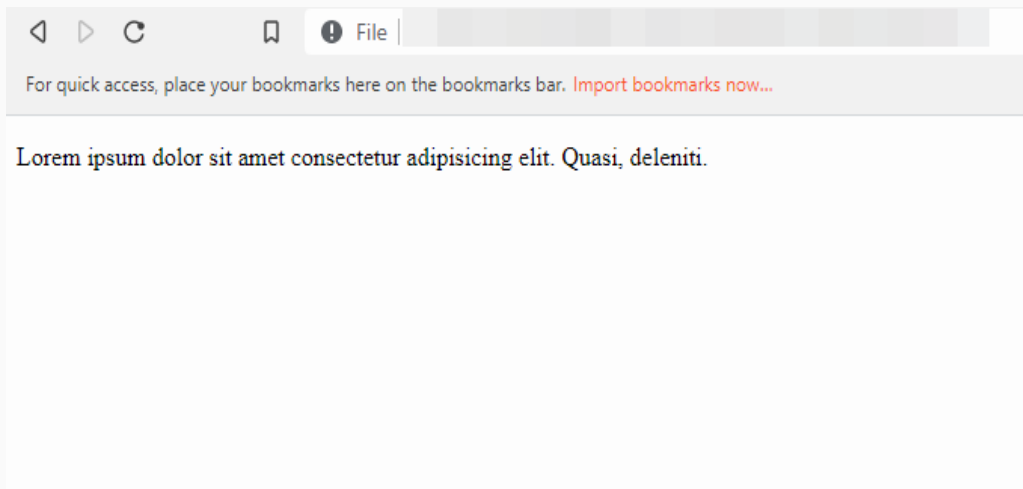
Paragraph tag syntax



# What are paragraph tags?

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
    <p>
      Lorem ipsum dolor sit amet consectetur adipisicing elit. Quasi, deleniti.
    </p>
  </body>
</html>
```

Paragraph tag syntax



Paragraph tag displayed in our webpage



# What are image tags?

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
    
  </body>
</html>
```



# What are image tags?

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
    
  </body>
</html>
```

ATTRIBUTES



# What are image tags?

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
    
  </body>
</html>
```

ATTRIBUTES

SRC - Specifies the path to the image



# What are image tags?

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
    
  </body>
</html>
```

ATTRIBUTES

SRC - Specifies the path to the image

ALT - Specifies an alternate text for the image



# What are table tags?

## Table Tags

To create a table in a webpage, we use some specific tags :

- `<table>` tag is used to make a table, with attribute “border” so that it can make a border of the table.



# What are table tags?

## Table Tags

To create a table in a webpage, we use some specific tags :

- `<table>` tag is used to make a table, with attribute “border” so that it can make a border of the table.
- `<tr>` tag is used to specify table row. To define each row, we first need to write the table row tag.

	Col 1	Col 2	Col 3	Col 4
Row 1				
Row 2				
Row 3				





# What are table tags?

## Table Tags

To create a table in a webpage, we use some specific tags :

- `<table>` tag is used to make a table, with attribute “border” so that it can make a border of the table.
- `<tr>` tag is used to specify table row. To define each row, we first need to write the table row tag.
- `<th>` tag stands for table head, which is used to define the headings of the first row. So, inside the first row `<tr>`, we use the `<th>` tag.

	Col 1	Col 2	Col 3	Col 4
Row 1				
Row 2				
Row 3				



# What are table tags?

## Table Tags

To create a table in a webpage, we use some specific tags :

- `<table>` tag is used to make a table, with attribute “border” so that it can make a border of the table.
- `<tr>` tag is used to specify table row. To define each row, we first need to write the table row tag.
- `<th>` tag stands for table head, which is used to define the headings of the first row. So, inside the first row `<tr>`, we use the `<th>` tag.
- `<td>` tag stands for table data. We will write our cell data using the `td` tag.

	Col 1	Col 2	Col 3	Col 4
Row 1				
Row 2				
Row 3				



# What are break tags?

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="ie=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>webpage</title>
  </head>
  <body>
    <p>
      Lorem ipsum dolor sit amet consectetur <br> adipisicing elit. Quasi, deleniti.
    </p>
  </body>
</html>
```

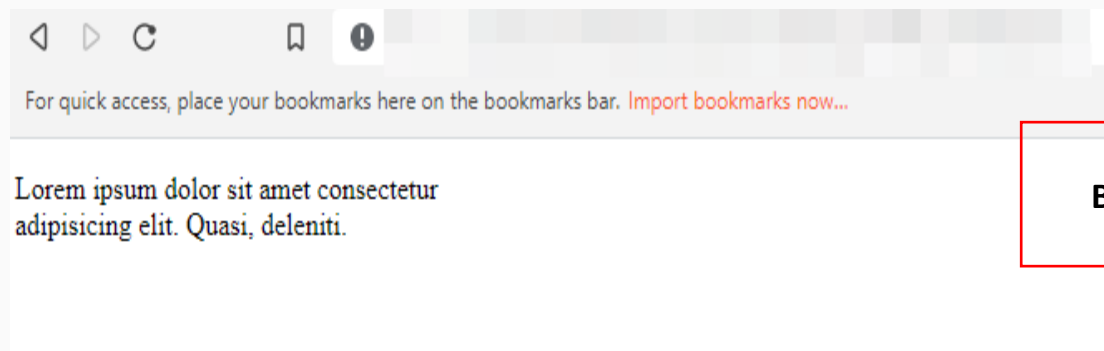
Break tag  
syntax



# What are break tags?

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="ie=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>webpage</title>
  </head>
  <body>
    <p>
      Lorem ipsum dolor sit amet consectetur <br> adipisicing elit. Quasi, deleniti.
    </p>
  </body>
</html>
```

Break tag  
syntax



Break tag in web page



# List Tags

## HTML List Tags

Tag	Description
<u>&lt;ul&gt;</u>	Defines an unordered list ←
<u>&lt;ol&gt;</u>	Defines an ordered list
<u>&lt;li&gt;</u>	Defines a list item



# List Tags

## HTML List Tags

Tag	Description
<u>&lt;ul&gt;</u>	Defines an unordered list ←
<u>&lt;ol&gt;</u>	Defines an ordered list
<u>&lt;li&gt;</u>	Defines a list item ←



# List Tags

## HTML List Tags

Tag	Description
<code>&lt;ul&gt;</code>	Defines an unordered list ←
<code>&lt;ol&gt;</code>	Defines an ordered list
<code>&lt;li&gt;</code>	Defines a list item ←

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>webpage</title>
  </head>
  <body>
    <ul> ←
      <li>Apple</li> ←
      <li>Mango</li> ←
      <li>Grapes</li> ←
      <li>Orange</li> ←
      <li>No one</li> ←
    </ul> ←
  </body>
</html>
```



# List Tags

A set of navigation icons including back, forward, and refresh symbols, followed by a bookmark icon and a warning icon.

For quick access, place your bookmarks here on the bookmarks bar. [Import bookmarks now...](#)

- Apple
- Mango
- Grapes
- Orange
- No one





# List Tags

## HTML List Tags

Tag	Description
<code>&lt;ul&gt;</code>	Defines an unordered list
<code>&lt;ol&gt;</code>	Defines an ordered list ←
<code>&lt;li&gt;</code>	Defines a list item

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>webpage</title>
  </head>
  <body>
    <ol>
      <li>Apple</li>
      <li>Mango</li>
      <li>Grapes</li>
      <li>Orange</li>
      <li>No one</li>
    </ol>
  </body>
</html>
```



# List Tags

◀▶↺

🔖

1. Coffee

2. Tea

3. Milk

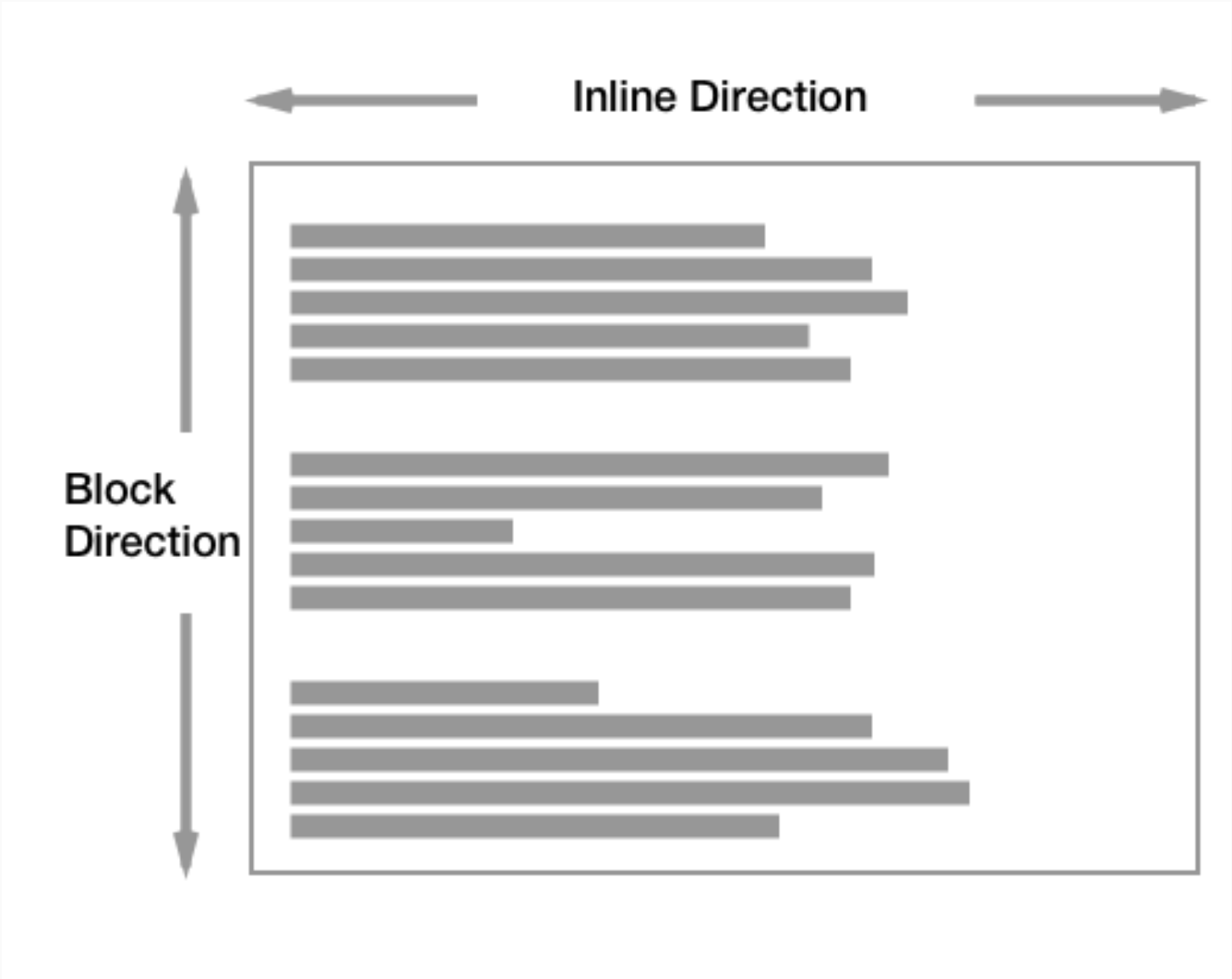


# Block and Inline Elements

- There are two display values: block and inline.
- A block-level element always starts on a new line and takes up the full width available.
- An inline element does not start on a new line, and it only takes up as much width as necessary.
- The `<p>` element is a block-level and is often used as a container for other HTML elements.
- The `<b>` element is an inline container used to mark up a part of a text, or a part of a document.



# Block and Inline Elements





# Block and Inline Elements

## Inline Elements

<code>&lt;a&gt;</code>	<code>&lt;label&gt;</code>
<code>&lt;abbr&gt;</code>	<code>&lt;q&gt;</code>
<code>&lt;acronym&gt;</code>	<code>&lt;samp&gt;</code>
<code>&lt;b&gt;</code>	<code>&lt;script&gt;</code>
<code>&lt;bdo&gt;</code>	<code>&lt;select&gt;</code>
<code>&lt;big&gt;</code>	<code>&lt;small&gt;</code>
<code>&lt;br&gt;</code>	<code>&lt;span&gt;</code>
<code>&lt;button&gt;</code>	<code>&lt;strong&gt;</code>
<code>&lt;cite&gt;</code>	<code>&lt;sub&gt;</code>
<code>&lt;code&gt;</code>	<code>&lt;sup&gt;</code>
<code>&lt;dfn&gt;</code>	<code>&lt;time&gt;</code>
<code>&lt;em&gt;</code>	
<code>&lt;i&gt;</code>	
<code>&lt;img&gt;</code>	
<code>&lt;input&gt;</code>	
<code>&lt;kbd&gt;</code>	
<code>&lt;var&gt;</code>	

## Block Elements

<code>&lt;fieldset&gt;</code>	<code>&lt;hr&gt;</code>
<code>&lt;figcaption&gt;</code>	<code>&lt;li&gt;</code>
<code>&lt;figure&gt;</code>	<code>&lt;main&gt;</code>
<code>&lt;footer&gt;</code>	<code>&lt;nav&gt;</code>
<code>&lt;form&gt;</code>	<code>&lt;ol&gt;</code>
<code>&lt;h1&gt;</code>	<code>&lt;p&gt;</code>
<code>&lt;h2&gt;</code>	<code>&lt;pre&gt;</code>
<code>&lt;h3&gt;</code>	<code>&lt;section&gt;</code>
<code>&lt;h4&gt;</code>	<code>&lt;table&gt;</code>
<code>&lt;h5&gt;</code>	<code>&lt;ul&gt;</code>
<code>&lt;h6&gt;</code>	<code>&lt;video&gt;</code>
<code>&lt;header&gt;</code>	<code>&lt;audio&gt;</code>
<code>&lt;hgroup&gt;</code>	



# Form tags

Type
<code>&lt;input type="text"&gt;</code>
<code>&lt;input type="radio"&gt;</code>
<code>&lt;input type="checkbox"&gt;</code>
<code>&lt;input type="submit"&gt;</code>



# Form tags

## Type

`<input type="text">`

`<input type="radio">`

`<input type="checkbox">`

`<input type="submit">`



Username



# Form tags

## Type

`<input type="text">`

`<input type="radio">`

`<input type="checkbox">`

`<input type="submit">`



Gender ☒ Male ☐ Female





# Form tags

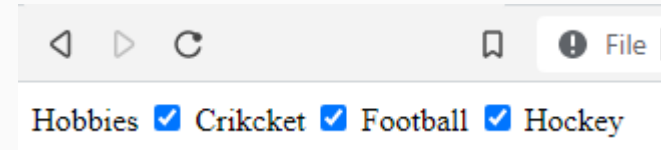
## Type

`<input type="text">`

`<input type="radio">`

`<input type="checkbox">`

`<input type="submit">`





# Form tags

Type
<code>&lt;input type="text"&gt;</code>
<code>&lt;input type="radio"&gt;</code>
<code>&lt;input type="checkbox"&gt;</code>
<code>&lt;input type="submit"&gt;</code>



◀ ▶ ↻

🔖

First name:

Password:



# Form tags

## Procedure for creating HTML forms

```
<form>
</form>
```

The diagram illustrates the structure of an HTML form. It features a dark blue rectangular area representing the form's content. A vertical green line is positioned on the left side of this area. The opening tag `<form>` is located at the top left, and the closing tag `</form>` is at the bottom left. Two yellow arrows point from the right towards each tag, highlighting their positions.



# Form tags

## Procedure for creating HTML forms

```
<form> ←  
→ <label for="fname">First name:</label><br>  
← </form>
```



# Form tags

## Procedure for creating HTML forms

```
<form> ←  
  <label for="fname">First name:</label><br>  
  <input type="text" id="fname" name="fname" value="John"><br>  
  <label for="lname">Last name:</label><br>  
  <input type="text" id="lname" name="lname" value="Doe"><br>  
</form> ←
```



# Form tags

## Procedure for creating HTML forms

```
<form> ←  
→<label for="fname">First name:</label><br>  
→<input type="text" id="fname" name="fname" value="John"><br>  
→<label for="lname">Last name:</label><br>  
→<input type="text" id="lname" name="lname" value="Doe"><br>  
→<input type="submit" value="Submit">  
</form> ←
```



# Form tags

## Procedure for creating HTML forms

```
<form> ←  
→<label for="fname">First name:</label><br>  
→<input type="text" id="fname" name="fname" value="John"><br>  
→<label for="lname">Last name:</label><br>  
→<input type="text" id="lname" name="lname" value="Doe"><br>  
→<input type="submit" value="Submit">  
</form> ←
```



# Form tags

## Procedure for creating HTML forms

```
<form> ←  
→<label for="fname">First name:</label><br>  
→<input type="text" id="fname" name="fname" value="John"><br>  
→<label for="lname">Last name:</label><br>  
→<input type="text" id="lname" name="lname" value="Doe"><br>  
→<input type="submit" value="Submit">  
</form> ←
```





# Form tags

## Procedure for creating HTML forms

```
<form> ←  
→<label for="fname">First name:</label><br>  
→<input type="text" id="fname" name="fname" value="John"><br>  
→<label for="lname">Last name:</label><br>  
→<input type="text" id="lname" name="lname" value="Doe"><br>  
→<input type="submit" value="Submit">  
</form> ←
```



# Input Types in Form Tags

• <u>&lt;input type="text"&gt;</u>		•<input type="range">
• <u>&lt;input type="password"&gt;</u>	.	• <u>&lt;input type="reset"&gt;</u>
•<input type="email">		• <u>&lt;input type="search"&gt;</u>
• <u>&lt;input type="radio"&gt;</u>	.	• <u>&lt;input type="submit"&gt;</u>
•<input type="date">		•<input type="tel">
•<input type="datetime-local">	.	• <u>&lt;input type="button"&gt;</u>
• <u>&lt;input type="file"&gt;</u>		<input type="time">
•<input type="hidden">	.	•<input type="url">
•<input type="image">		•<input type="week">
•<input type="month">	.	
• <u>&lt;input type="number"&gt;</u>		



# Form Input Attributes (**Read-only, Disabled, Size**)

The input **read-only** attribute specifies that an input field is read-only.

```
<form>
  <label for="fname">First name:</label><br />
  <input type="text" id="fname" name="fname" value="username" readonly /><br />
  <label for="lname">Last name:</label><br />
  <input type="text" id="lname" name="lname" value="lastname" />
</form>
```



# Form Input Attributes (**Read-only, Disabled, Size**)

The input **read-only** attribute specifies that an input field is read-only.

```
<form>
  <label for="fname">First name:</label><br />
  <input type="text" id="fname" name="fname" value="username" readonly /><br />
  <label for="lname">Last name:</label><br />
  <input type="text" id="lname" name="lname" value="lastname" />
</form>
```

A **disabled** input field is unusable and un-clickable

```
<form>
  <label for="fname">First name:</label><br />
  <input type="text" id="fname" name="fname" value="username" disabled /><br />
  <label for="lname">Last name:</label><br />
  <input type="text" id="lname" name="lname" value="lastname" />
</form>
```



# Form Input Attributes (**Read-only, Disabled, Size**)

The input **read-only** attribute specifies that an input field is read-only.

```
<form>
  <label for="fname">First name:</label><br />
  <input type="text" id="fname" name="fname" value="username" readonly /><br />
  <label for="lname">Last name:</label><br />
  <input type="text" id="lname" name="lname" value="lastname" />
</form>
```

A **disabled** input field is unusable and un-clickable

```
<form>
  <label for="fname">First name:</label><br />
  <input type="text" id="fname" name="fname" value="username" disabled /><br />
  <label for="lname">Last name:</label><br />
  <input type="text" id="lname" name="lname" value="lastname" />
</form>
```

The input **size** attribute specifies the visible width, in characters, of an input field.

```
<form>
  <label for="fname">First name:</label><br />
  <input type="text" id="fname" name="fname" value="username" size="10" /><br />
  <label for="lname">Last name:</label><br />
  <input type="text" id="lname" name="lname" value="lastname" size="5" />
</form>
```



## Form Input Attributes (**Min & Max, Multiple, Placeholder**)

The input **min** and **max** attributes specify the minimum and maximum values for an input field.

```
<form>
  <label for="fname">First name:</label><br />
  <input type="text" id="fname" name="fname" minlength="2" value="username" size="10" /><br />
  <label for="lname">Number</label><br />
  <input type="text" id="lname" name="lname" maxlength="5" size="5" />
</form>
```

```
<form>
  <label for="files">Select files:</label>
  <input type="file" id="files" name="files" multiple />
</form>
```

The input **multiple** attribute specifies that the user is allowed to enter more than one value in an input field.

```
<form>
  <label for="phone">Enter a phone number:</label>
  <input
    type="tel"
    id="phone"
    name="phone"
    placeholder="123-45-678"
    pattern="[0-9]{3}-[0-9]{2}-[0-9]{3}"
  />
</form>
```

The short hint is displayed in the input field before the user enters a value.



## Form Input Attributes (**Required**)

```
<form>
  <label for="username">Username:</label>
  <input type="text" id="username" name="username" required />
</form>
```



# Additional input attributes (**Min, max, multiple, and placeholder**)

The input **min** and **max** attributes specify the minimum and maximum values for an input field.

```
<form>
  <label for="fname">First name:</label><br />
  <input type="text" id="fname" name="fname" minlength="2" value="username" size="10" /><br />
  <label for="lname">Number</label><br />
  <input type="text" id="lname" name="lname" maxlength="5" size="5" />
</form>
```





# Additional input attributes (**Min, max, multiple, and placeholder**)

The input **min** and **max** attributes specify the minimum and maximum values for an input field.

```
<form>
  <label for="fname">First name:</label><br />
  <input type="text" id="fname" name="fname" minlength="2" value="username" size="10" /><br />
  <label for="lname">Number</label><br />
  <input type="text" id="lname" name="lname" maxlength="5" size="5" />
</form>
```

```
<form>
  <label for="files">Select files:</label>
  <input type="file" id="files" name="files" multiple />
</form>
```

The input **multiple** attribute specifies that the user is allowed to enter more than one value in an input field.



# Additional input attributes (**Min, max, multiple, and placeholder**)

The input **min** and **max** attributes specify the minimum and maximum values for an input field.

```
<form>
  <label for="fname">First name:</label><br />
  <input type="text" id="fname" name="fname" minlength="2" value="username" size="10" /><br />
  <label for="lname">Number</label><br />
  <input type="text" id="lname" name="lname" maxlength="5" size="5" />
</form>
```

```
<form>
  <label for="files">Select files:</label>
  <input type="file" id="files" name="files" multiple />
</form>
```

The input **multiple** attribute specifies that the user is allowed to enter more than one value in an input field.

```
<form>
  <label for="phone">Enter a phone number:</label>
  <input
    type="tel"
    id="phone"
    name="phone"
    placeholder="123-45-678"
    pattern="[0-9]{3}-[0-9]{2}-[0-9]{3}"
  />
</form>
```

The short hint is displayed in the input field before the user enters a value.



# Input attributes (**Required**)

```
<form>  
  <label for="username">Username:</label>  
  <input type="text" id="username" name="username" required />  
</form>
```



# Input attributes (**Required**)

```
<form>  
  <label for="username">Username:</label>  
  <input type="text" id="username" name="username" required />  
</form>
```



# Block and Inline Elements

## Inline Elements

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

## Block Elements

<fieldset>	<hr>
<figcaption>	<li>
<figure>	<main>
<footer>	<nav>
<form>	<ol>
<h1>	<p>
<h2>	<pre>
<h3>	<section>
<h4>	<table>
<h5>	<ul>
<h6>	<video>
<header>	<audio>
<hgroup>	



# Examining Block and Inline Elements

## Inline Elements

<code>&lt;a&gt;</code>	<code>&lt;label&gt;</code>
<code>&lt;abbr&gt;</code>	<code>&lt;q&gt;</code>
<code>&lt;acronym&gt;</code>	<code>&lt;samp&gt;</code>
<code>&lt;b&gt;</code>	<code>&lt;script&gt;</code>
<code>&lt;bdo&gt;</code>	<code>&lt;select&gt;</code>
<code>&lt;big&gt;</code>	<code>&lt;small&gt;</code>
<code>&lt;br&gt;</code>	<code>&lt;span&gt;</code>
<code>&lt;button&gt;</code>	<code>&lt;strong&gt;</code>
<code>&lt;cite&gt;</code>	<code>&lt;sub&gt;</code>
<code>&lt;code&gt;</code>	<code>&lt;sup&gt;</code>
<code>&lt;dfn&gt;</code>	<code>&lt;time&gt;</code>
<code>&lt;em&gt;</code>	
<code>&lt;i&gt;</code>	
<code>&lt;img&gt;</code>	
<code>&lt;input&gt;</code>	
<code>&lt;kbd&gt;</code>	
<code>&lt;var&gt;</code>	

## Block Elements

<code>&lt;fieldset&gt;</code>	<code>&lt;hr&gt;</code>
<code>&lt;figcaption&gt;</code>	<code>&lt;li&gt;</code>
<code>&lt;figure&gt;</code>	<code>&lt;main&gt;</code>
<code>&lt;footer&gt;</code>	<code>&lt;nav&gt;</code>
<code>&lt;form&gt;</code>	<code>&lt;ol&gt;</code>
<code>&lt;h1&gt;</code>	<code>&lt;p&gt;</code>
<code>&lt;h2&gt;</code>	<code>&lt;pre&gt;</code>
<code>&lt;h3&gt;</code>	<code>&lt;section&gt;</code>
<code>&lt;h4&gt;</code>	<code>&lt;table&gt;</code>
<code>&lt;h5&gt;</code>	<code>&lt;ul&gt;</code>
<code>&lt;h6&gt;</code>	<code>&lt;video&gt;</code>
<code>&lt;header&gt;</code>	<code>&lt;audio&gt;</code>
<code>&lt;hgroup&gt;</code>	



# Video Tags

```
<video width="320" height="240" controls>  
  <source src="movie.mp4" type="video/mp4" />  
  Your browser does not support the video tag.  
</video>
```



# Video Tags

Browser	MP4	WebM	Ogg
Edge	YES	YES	YES
Chrome	YES	YES	YES
Firefox	YES	YES	YES
Safari	YES	YES	NO
Opera	YES	YES	YES





# Audio Tags

```
<audio controls>  
  <source src="horse.ogg" type="audio/ogg" />  
  Your browser does not support the audio element.  
</audio>
```



# Audio Tags

```
<audio controls>
  <source src="horse.ogg" type="audio/ogg" />
  Your browser does not support the audio element.
</audio>
```

Browser	MP4	WebM	Ogg
Edge	YES	YES	YES
Chrome	YES	YES	YES
Firefox	YES	YES	YES
Safari	YES	YES	NO
Opera	YES	YES	YES



# CONCLUSION