

Getting started with HTML

Topics Covered:

- What is HTML?
- What is HyperText?
- What is Markup?
- What are the benefits of using HTML5?
- What is the basic structure of HTML?
- How to save an HTML file?
- What is the importance of learning HTML?
- What are HTML Elements?
- How to distinguish between headings and paragraphs in HTML?
- What are void elements?
- What are nested elements?
- What are different types of elements in HTML?
- What is an attribute?
- What is a comment?
- How to apply styles in HTML?

HTML:

- HTML stands for **HyperText Markup Language**.
- HTML is the standard markup language used for designing web pages.
- HTML elements are represented by tags **< >**.
- HTML can be assisted by CSS style sheets(CSS) and scripting languages like JavaScript(JS).
- HTML was created to document pages that are displayed on the web pages. The HTML helps the browser to display text, load images, and other elements.
- HTML was created in **1993** by **Tim Berners-Lee**. Since then, we have had different versions of HTML that are upgraded and now the most widely used version is **HTML5**.
- HTML is used for creating pages that are displayed on the web pages. All the pages that we see on World Wide Web(**www**) are written on different versions of HTML.

HyperText:

- The word or words that contain a link to a website is HyperText.
- The term Hypertext was coined in 1963 by **Ted Nelson**.
- Example:

```
<a href=https://www.facebook.com/>Facebook</a>
```

The diagram shows the HTML tag `Facebook` on a dark background. Two arrows point from the tag to labels below: one arrow points from the `href` attribute to the word **Hyperlink**, and another arrow points from the `Facebook` text to the word **Hypertext**.

Markup:

- A markup language uses **tags** `</>` to define elements within a document.
- The readable files contain standard words, rather than using typical programming syntax called Markup language.
- Example markup languages: **HTML**, **SGML**, and **XML**.
- Example:

```
<p>Hello. Welcome to <b> Full Stack Development Course </b></p>
```



Hello. Welcome to **Full Stack Development Course**

Markup language

Ques

Benefits of HTML5 over other version of HTML:

- Cleaner markup,
- consistency,
- support multimedia with new tags,
- Offline application cache.

Structure of HTML:

Code:

```
<!DOCTYPE html>
<html>
  <head>
    <!-- title of the web page -->
    <title>HTML</title>
  </head>
  <body>
    <!-- paragraph -->
    <p>Structure of HTML</p>
  </body>
</html>
```

Where,

Tags	Purpose
<!DOCTYPE html>	Defines the document as an HTML5 document.
<html> </html>	Root element of the HTML document.
<head> </head>	Contains the information about the document
<title></title>	Specify the title that has to be shown in the browser's title bar/tab .
<body> </body>	Defines the document body, it's the container for all contents like headings, images, paragraphs, tables, lists, etc...
<p></p>	Defines a paragraph .

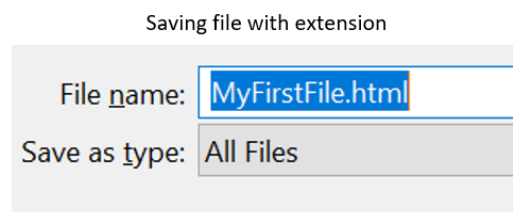
Output:



HTML File extension:

- To be recognized by the web browsers all the HTML files must have a special file extension.
- The extension is **.html**

Appearance of file after saving

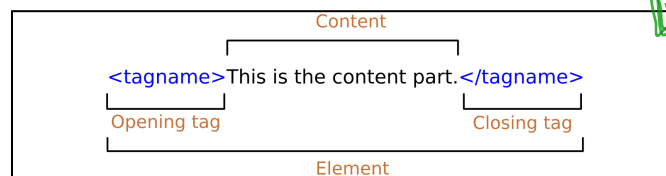


Importance of HTML:

- HTML is the foundation of all web pages.
- HTML is the beginning and basic level to start with web development.
- HTML is far easier to understand and learn.
- Almost every browser supports HTML. So it is bound to show up in all browsers regardless of where it is accessed through.

HTML Elements:

- HTML is made of **elements**.
- These elements are responsible for creating web pages and defining content in the web page.
- An element in HTML usually consists of a **start tag** <tag name>, **close tag** </tag name> and **content** inserted between them.
- **Syntax:**

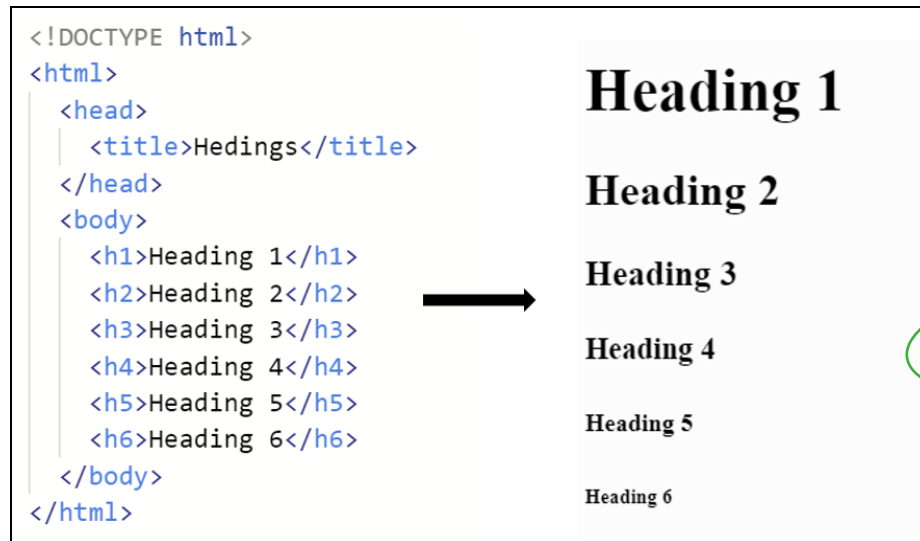


- Example:

```
<p>Structure of HTML</p>
```

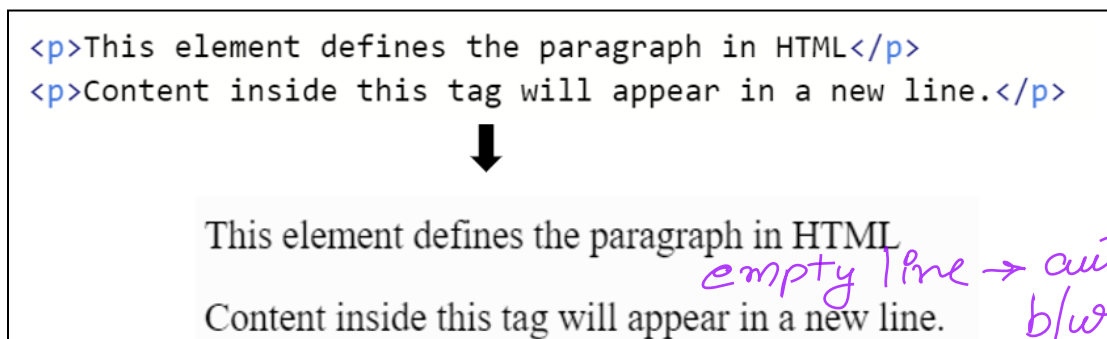
Headings in HTML:

- **HTML headings** are titles or subtitles that you want to display on a webpage.
- There are **six levels of headings defined** by HTML.
- These 6 heading elements are **H1, H2, H3, H4, H5, and H6**.
- H1 being the **highest level (main heading)** and H6 the **least level (least important heading)**.
- Example:



Paragraphs in HTML:

- `<p>` element defines a paragraph.
- browser itself adds an empty line before and after a paragraph.
- Content inside `<p>` element always starts with a new line. — *Block element*
- Example:

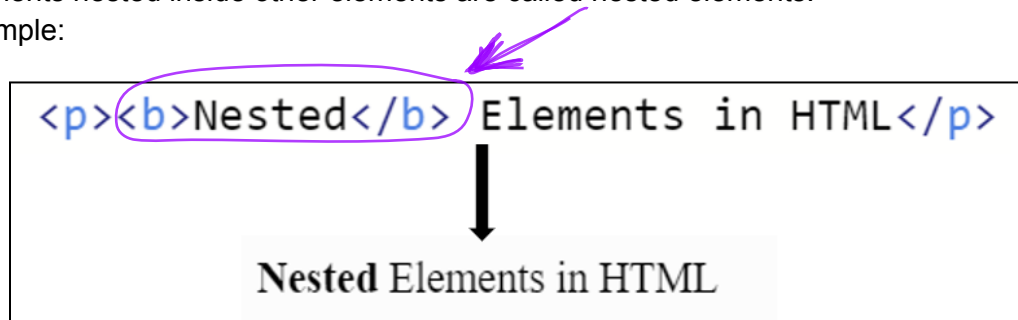


Void Elements:

- All the elements in HTML do not require a **start tag and end tag**.
- Some elements do not have content and end tag such elements are known as **Void elements** or **empty elements**.
- These elements are also called unpaired **tags**.
- Example:
 - `
` (represents a line break)
 - `<hr>` (represents a horizontal line)

Nested Elements:

- Elements inside other elements are called **nesting**.
- Elements nested inside other elements are called nested elements.
- Example:



Types of Elements:

There are two types of elements in HTML:

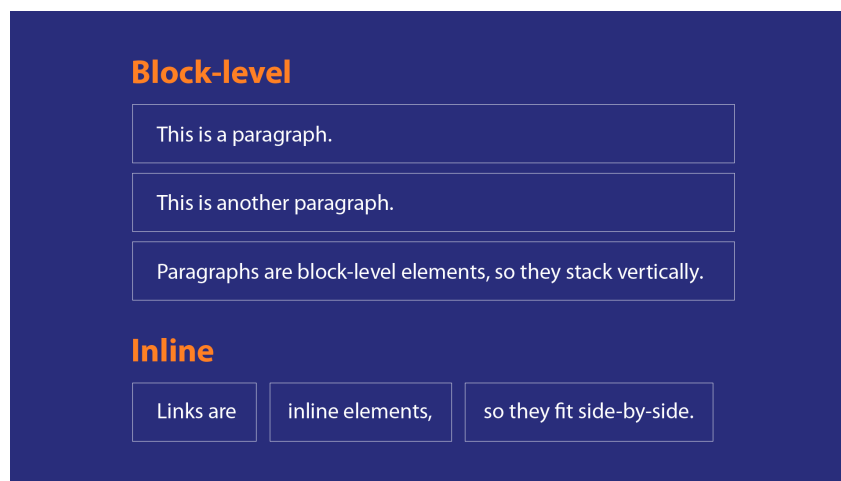
- **Block level** elements.
- **Inline** elements.

Block level elements:

- They form a visible block on a page — they will **appear on a new line** from whatever content went before it,
- And any content that goes after it will also appear on a new line.
- **Example:** `<p>` or `<h1>`.

Inline elements:

- Inline elements will **not** cause **a new line to appear in the document**.
- They would normally appear inside a paragraph of text.
- **Example:** `<a>` (hyperlink) or `` (bold).



Attributes in HTML:

- Special words which provide **additional information** about the elements.
- Each element or tag can have **attributes**, which defines the behavior of that element.
- Attributes should always be applied with the start tag.
- Attribute values are case sensitive. Multiple attributes can be applied to a single element.
- Example:



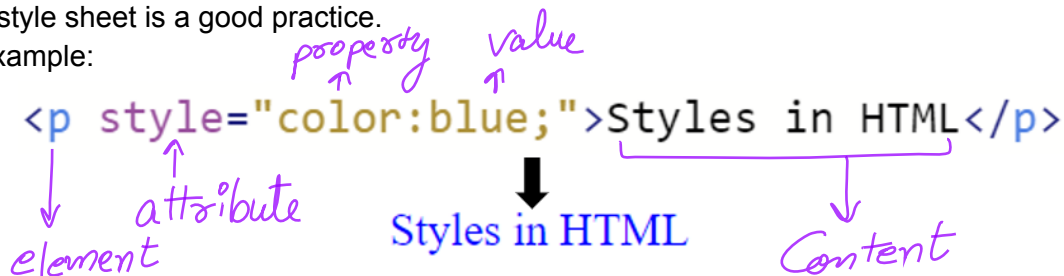
Comments:

- **Comments** are **text notes** added to the program to provide **explanatory information** about the source code.
- Comment is a programmer-readable explanation or annotation in the source code.
- Comment is a piece of code which is **ignored by any web browser**.
- Comments help you and others understand your code and **increase code readability**.
- Comments are placed in between `<!-- ... -->` tags.
- Example:

```
<!-- paragraph -->  
<!-- title of the web page -->
```

Styles:

- **HTML style attribute** is used to add styles to an element, such as color, font, size, and more.
- The **style** in HTML are rules for making the web-pages more **attractive, engaging** and **presentable**.
- The styles applied in the style attribute are known as inline styles. But applying styles in a style sheet is a good practice.
- Example:



Challenge:

With your new gained knowledge on HTML conduct further research about HTML and get

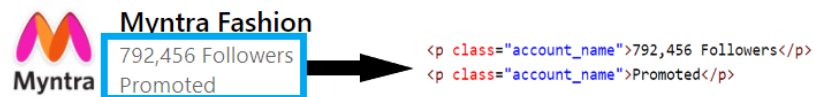
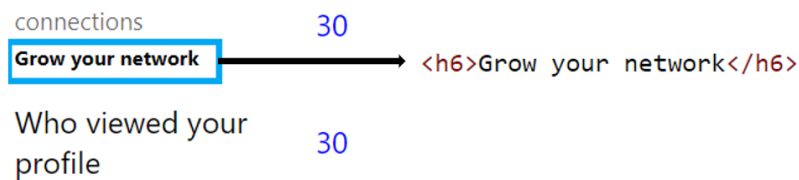
familiar with the following:

- What is the relationship between browser and HTML?
- ✓ What are the advantages of HTML5 over other versions?
- ✓ Which language is used to decorate/ style HTML elements? - Markup

Utility of today's topics in Static linkedIn page:

The basic structural elements of HTML in our final project:

- You can refer the file in the github link:
<https://github.com/testbook123/Full-Stack-Development.git>
- Headings and paragraphs:



- Void elements:

```
<div class="news_head">
  <div class="news_title">LinkedIn News</div>
  <i class="bi bi-info-square-fill" style="font-size:15px;"></i>
</div>
<br>

<div class="new_list">
  <div class="act_title" style="display: flex;flex-direction: row;align-items: center;">
    <i class="bi bi-record-fill" style="font-size:14px;margin-right:10px;"></i>
    Indian crosses 3,58,974 daily cases
  </div>
  <div style="margin-left:25px;" class="account_name">10h ago - 5,043 readers
</div>
```