

# Structural Elements

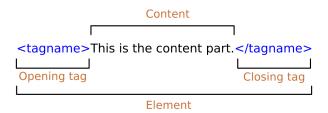
# **Topics covered:**

- 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?

# **Topics in Detail**

### **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:

Structure of HTML



### **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:

```
<!DOCTYPE html>
<html>
                                     Heading 1
 <head>
   <title>Hedings</title>
 </head>
                                     Heading 2
 <body>
   <h1>Heading 1</h1>
                                     Heading 3
   <h2>Heading 2</h2>
   <h3>Heading 3</h3>
                                     Heading 4
   <h4>Heading 4</h4>
   <h5>Heading 5</h5>
                                     Heading 5
    <h6>Heading 6</h6>
 </body>
                                     Heading 6
</html>
```

## Paragraphs in HTML:

- element defines a paragraph.
- browser itself adds an empty line before and after a paragraph.
- Content inside element always starts with a new line.
- Example:

This element defines the paragraph in HTML

Content inside this tag will appear in a new line.

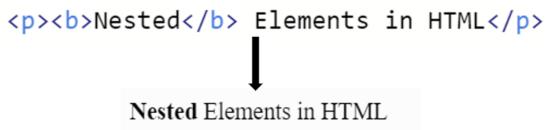


#### Void elements:

- 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:
  - <br/>(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**: or <h1>.

#### Inline element:

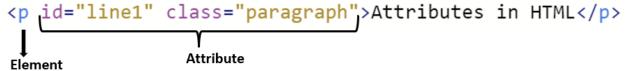
- Inline elements will not cause a new line to appear in the document.
- They would normally appear inside a paragraph of text.
- Example: <a> (hyperlink) or <b> (bold).





### 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:



### 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:

### **Utility of topics learned in Static linkedin page project:**

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:

