

HTML Q&A

1) Are the HTML tags and elements the same thing?

ANS- No

2) What are tags and attributes in HTML?

ANS- HTML Tags:

Definition: Tags are the fundamental building blocks of HTML. They are used to mark up or define different parts of the content on a web page.

Syntax: Tags are typically written as pairs, consisting of an opening tag and a closing tag. The opening tag denotes the beginning of an element, and the closing tag denotes the end.

HTML Attributes:

Definition: Attributes provide additional information about HTML elements. They are used to modify the behavior or appearance of an element.

Syntax: Attributes are included within the opening tag of an HTML element and are written as name-value pairs. The attribute name is followed by an equals sign and a value, enclosed in double or single quotes.

3) • What are void elements in HTML? With Example.

ANS- In HTML, void elements are elements that do not have a closing tag. They are self-closing tags and do not contain any content between an opening tag and a closing tag. Void elements are used to insert various types of content, such as images, line breaks, or input fields, into a web page.

EXAMPLE:

- ``: Used for embedding images.

``

- `
`: Represents a line break.

`<p>This is a paragraph.
This is a new line.</p>`

- `<input>`: Used for creating input fields in forms.

`<input type="text" name="username" placeholder="Enter your username">`

4) What are HTML Entities? With Example.

ANS- HTML entities are special codes used to represent characters that have a specific meaning in HTML or that cannot be easily expressed using normal keyboard characters. They are often used to ensure that the browser correctly interprets and displays characters that might otherwise be reserved for HTML markup or have special meanings.

- < - Less than (<)
`<p>This is an example of the < symbol.</p>`
- > - Greater than (>)
`<p>This is an example of the > symbol.</p>`
- & - Ampersand (&)
`<p>This is an example of the & symbol.</p>`
- " - Double quotation mark (")
`<p>This is an example of the " symbol.</p>`
- ' - Single quotation mark (')
`<p>This is an example of the ' symbol.</p>`
- © - Copyright symbol (©)
`<p>This document is protected by © Copyright.</p>`
- ® - Registered trademark symbol (®)
`<p>This product is a registered trademark of XYZ Corp.®</p>`
- - Non-breaking space ()
`<p>This is some text. This space won't break.</p>`

5) What are different types of lists in HTML? With Example.

- Ordered List ():

```
<ol>
```

```
<li>Item 1</li>
```

```
<li>Item 2</li>
```

```
<li>Item 3</li>
```

```
</ol>
```

Output:

Item 1

Item 2

Item 3

- Unordered List ():

```
<ul>
  <li>Apple</li>
  <li>Orange</li>
  <li>Banana</li>
</ul>
```

Output:

Apple
Orange
Banana

- Definition List (<dl>):

```
<dl>
  <dt>HTML</dt>
  <dd>HyperText Markup Language</dd>

  <dt>CSS</dt>
  <dd>Cascading Style Sheets</dd>
</dl>
```

Output:

HTML
: HyperText Markup Language

CSS
: Cascading Style Sheets

6) • What is the 'class' attribute in HTML? With Example.

The class attribute in HTML is used to assign one or more class names to an HTML element. Classes are a way to apply common styles or behaviors to multiple elements on a page. By using the class attribute, you can reference specific styles defined in a CSS (Cascading Style Sheets) file or apply JavaScript functionality to a group of elements with the same class.

Here's an example of how the class attribute is used in HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
```

```

<meta name="viewport" content="width=device-width, initial-scale=1.0">
<style>
/* Define a CSS style for the "highlight" class */
.highlight {
  color: red;
  font-weight: bold;
}
</style>
<title>Class Attribute Example</title>
</head>
<body>

<h1 class="highlight">This heading is highlighted</h1>

<p>This is a regular paragraph.</p>

<p class="highlight">This paragraph is also highlighted.</p>

</body>
</html>

```

6) What is the difference between the 'id' attribute and the 'class' attribute of HTML elements? With Example.

Uniqueness:

id: Must be unique within the HTML document.
class: Can be shared among multiple elements.

Usage:

id: Used to uniquely identify a single element.
class: Used to group multiple elements together.

Referencing in CSS and JavaScript:

id: Referenced using # (hash symbol).
class: Referenced using . (period).

Example:

id: <div id="unique Element">...</div>
class: <p class="highlight">...</p>

7) •What are the various formatting tags in HTML?

- h1> to <h6> (Headings)
- <p> (Paragraph)
-
 (Line Break)
- <hr> (Horizontal Rule)
- (Bold - deprecated)
- (Strong)
- <i> (Italic - deprecated)
- (Emphasis)
- <u> (Underline)
- <s>, <strike>, (Strikethrough)
- <sup> (Superscript)
- <sub> (Subscript)
- <code> (Code)
- <pre> (Preformatted)

8) How is Cellpadding different from Cellspacing? With Example.

In HTML tables, both cell padding and cell spacing are attributes that affect the visual appearance of the table, but they serve different purposes.

Cell Padding:

```
<table cellpadding="10">
  <tr>
    <td>Cell 1</td>
    <td>Cell 2</td>
  </tr>
  <tr>
    <td>Cell 3</td>
    <td>Cell 4</td>
  </tr>
</table>
```

In this example, each cell in the table will have a padding of 10 pixels around its content.

Cell Spacing:

Attribute: cellspacing

Purpose: Specifies the space between cells within the table.

Example:

```
<table cellspacing="5">
  <tr>
    <td>Cell 1</td>
    <td>Cell 2</td>
  </tr>
```

```

<tr>
  <td>Cell 3</td>
  <td>Cell 4</td>
</tr>
</table>

```

In this example, there will be a spacing of 5 pixels between adjacent cells in the table.

9) How can we club two or more rows or columns into a single row or column in an HTML table? With Example.

In HTML, you can use the colspan and rowspan attributes to combine multiple columns or rows into a single column or row within a table. These attributes are used within the <td> (table data) or <th> (table header) tags to specify how many columns or rows a cell should span.

Combining Rows:

```

<table border="1">
  <tr>
    <td>Row 1, Cell 1</td>
    <td>Row 1, Cell 2</td>
    <td>Row 1, Cell 3</td>
  </tr>
  <tr>
    <td colspan="2">Row 2, Cell 1-2</td>
    <td>Row 2, Cell 3</td>
  </tr>
  <tr>
    <td>Row 3, Cell 1</td>
    <td rowspan="2">Row 3-4, Cell 2</td>
    <td>Row 3, Cell 3</td>
  </tr>
  <tr>
    <td>Row 4, Cell 1</td>
    <td>Row 4, Cell 3</td>
  </tr>
</table>

```

In this example:

The second row has a cell (<td colspan="2">) that spans two columns.

The third row has a cell (<td rowspan="2">) that spans two rows.

Combining Columns:

```

<table border="1">
  <tr>
    <td>Column 1</td>
    <td colspan="2">Column 2-3</td>
    <td>Column 4</td>
  </tr>
</table>

```

```

</tr>
<tr>
  <td>Row 2, Cell 1</td>
  <td>Row 2, Cell 2</td>
  <td>Row 2, Cell 3</td>
  <td>Row 2, Cell 4</td>
</tr>
</table>

```

In this example:

The first row has a cell (<td colspan="2">) that spans two columns.

10) What is the difference between a block-level element and an inline element?

Key Differences:

Line Breaks:

Block-level elements typically start on a new line, creating a visual block. Inline elements do not force a new line.

Width and Height:

Block-level elements respect both width and height properties, taking up the full width by default. Inline elements do not respect the height property.

Container Relationship:

Block-level elements create a block-level box, affecting the layout of their container. Inline elements flow within the content and do not affect the layout of their container.

Examples:

Block-level elements are often used for structural elements like paragraphs, headings, and divs. Inline elements are often used for text-level or inline content.

11) How to create a Hyperlink in HTML? With Example.

ANS-

```
<body>
```

```
<h1>My Website</h1>
```

```
<!-- Creating a hyperlink to an external website -->
```

```
<p>Visit my favorite search engine: <a href="https://www.example.com">Example Search</a></p>
```

```
<!-- Creating a hyperlink to another page within the same website -->
```

```
<p>Explore the services we offer: <a href="services.html">Services</a></p>
```

```
</body>
```

The basic structure of an anchor element looks like this:

`Link Text`

12) • What is the use of an iframe tag? With Example.

ANS- The `<iframe>` (inline frame) tag in HTML is used to embed another HTML document within the current document. It allows you to include content from another source, such as a different webpage, a video, or a map, directly within your HTML page. This is commonly used for incorporating external content seamlessly into a webpage.

Here's an example of how the `<iframe>` tag is used:

`<body>`

`<h1>Embedding a Google Map</h1>`

`<!-- Using an iframe to embed a Google Map -->`

`<iframe`

`width="600"`

`height="450"`

`frameborder="0"`

`style="border:0"`

`src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d1234.5678!2d-`

`74.005972!3d40.712776!2m3!1f0!2f0!3f0!3m2!1i1024!2i768!4f13.1!3m3!1m2!1s0x89c259a77123cd91%3A0xdd4c3ee64b2c25d!2sNew%20York%2C%20NY!5e0!3m2!1sen!2sus!4v1630520771234!5m2!1sen!2sus"`

`allowfullscreen`

`></iframe>`

`</body>`

`</html>`

13) • What is the use of a span tag? Explain with example?

ANS- The `` tag in HTML is an inline container that is used to apply styles or scripting to a specific section of text within a larger block of content. It does not add any visual impact on its own but allows you to target and style a specific portion of text or inline elements.

Here's an example of how the `` tag can be used:

`<!DOCTYPE html>`

`<html lang="en">`

`<head>`

`<meta charset="UTF-8">`

`<meta name="viewport" content="width=device-width, initial-scale=1.0">`

`<title>Span Tag Example</title>`

`<style>`

`/* Style for the span with class "highlight" */`

`.highlight {`

`color: red;`

`font-weight: bold;`

`}`


```

</style>
</head>
<body>

<h1>Welcome to <span class="highlight">My Website</span></h1>

<p>This is a <span class="highlight">highlighted</span> section of text.</p>

<p>Another example with <span style="color: blue;">inline style</span>.</p>

</body>
</html>

```

14) How to insert a picture into a background image of a web page? With Example.

ANS- To insert a picture into the background of a web page, you can use the CSS background property along with the url() function to specify the path to the image. Here's an example:

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Background Image Example</title>
  <style>
    body {
      /* Set the background image using the url() function */
      background: url('background-image.jpg') no-repeat center center fixed;
      /* Adjust background size to cover the entire viewport */
      background-size: cover;
      /* Set the font color to make text more readable on the background */
      color: white;
      /* Optional: Add padding to improve layout aesthetics */
      padding: 20px;
    }

    /* Additional styles for content within the body */
    h1 {
      font-size: 3em;
    }

    p {
      font-size: 1.2em;
    }
  </style>
</head>
<body>

```

```
<h1>Welcome to My Website</h1>
<p>This is a sample webpage with a background image.</p>

</body>
</html>
```

15) • How are active links different from normal links?

ANS- In HTML and web development, "active links" and "normal links" typically refer to the visual representation of links based on their states. The terms are commonly associated with CSS (Cascading Style Sheets) and are related to the link's appearance in different states or conditions.

Normal Links:

Normal State: This is the default appearance of a link when it hasn't been interacted with.

```
a {
  color: blue; /* Default text color */
  text-decoration: underline; /* Default underlining */
}
```

Active Links:

Active State: This is the appearance of a link when it is being clicked or activated by the user.

```
a:active {
  color: red; /* Text color when the link is clicked */
  text-decoration: none; /* Remove underlining when the link is clicked */
}
```

16) What are the different tags to separate sections of text?

Paragraph (<p>):

Used to define paragraphs of text.

Html

Heading (<h1> to <h6>):

Defines headings and subheadings.

Section (<section>):

Represents a generic section of content in a document.

Article (<article>):

Represents a self-contained piece of content that could be distributed and reused independently.

Div (<div>):

A generic container that does not carry any semantic meaning on its own. Often used for grouping and styling purposes.

Header (<header>), Footer (<footer>), and Main (<main>):

Used to define header, footer, and main content sections of a document.

Blockquote (<blockquote>):

Represents a section that is a quotation from another source.

Preformatted (<pre>):

Represents preformatted text. Whitespace is preserved in this element.

17) What is SVG?

ANS-SVG stands for Scalable Vector Graphics. It is an XML-based file format for describing vector graphics, which are images created using mathematical equations rather than pixels. SVG is an open standard maintained by the World Wide Web Consortium (W3C). The key features of SVG include:

Scalability: SVG images are resolution-independent and can be scaled to any size without loss of quality. This makes them ideal for responsive web design.

Vector Graphics: SVG uses mathematical descriptions to define shapes, lines, and curves rather than a grid of pixels. This makes SVG graphics sharp and clear at any size.

XML-based: SVG files are written in XML (eXtensible Markup Language), making them human-readable and easily editable with a text editor.

Interactivity: SVG supports interactivity and animation through the use of JavaScript. Elements within an SVG image can be scripted and manipulated.

Accessibility: SVG supports accessibility features, allowing developers to provide alternative text and descriptions for screen readers.

Compact File Size: SVG files are often smaller in size compared to raster images (such as JPEG or PNG) for simple graphics, logos, and icons.

Support in Web Technologies: SVG is widely supported in modern web browsers, making it a popular choice for web development. It can be embedded directly into HTML documents or used as standalone files.

Graphic Elements: SVG supports a variety of graphic elements, including paths, circles, rectangles, text, and more. These elements can be styled using CSS.

18) What is difference between HTML and XHTML?

ANS- XHTML is basically an extension of HTML, which is stricter than HTML. Both languages are used to create web and Android applications. HTML is SGML based, whereas XHTML is an XML-based language. HTML is easy to learn for beginners, and then they can move on to XHTML.

19) • What are logical and physical tags in HTML?

In HTML, the terms "logical tags" and "physical tags" are often used to describe the structure and presentation of content. These terms are related to the separation of content and style, emphasizing the

importance of using semantic, meaningful tags for document structure while relying on CSS for presentation. However, it's worth noting that these terms are not part of the official HTML specification.

Logical Tags:

Meaningful Structure: Logical tags are those that represent the logical structure and semantics of the content rather than its visual presentation.

Emphasis on Semantics: These tags convey the meaning of the content they enclose, making it more understandable to both developers and assistive technologies.

Examples:

`<header>`, `<footer>`, `<nav>`: Representing structural components of a document.

`<article>`, `<section>`, `<aside>`: Conveying the logical organization of content.

`<p>`, `<h1>` to `<h6>`: Representing paragraphs and headings.

Physical Tags:

Visual Presentation: Physical tags are those that traditionally describe the visual appearance or style of the content.

Emphasis on Presentation: These tags were historically used to define how the content should be rendered visually.

Examples:

``, `<i>`: Representing bold and italic text, respectively.

``: Used for setting font styles and colors.

`<u>`: Representing underlined text.