

Training Institute Of Technology (HTML short notes)

What are the types of HTML tags?

HTML tags are classified into the following types:

- 1. Structural Tags <div>, <header>, <footer>, <section>, <article>
- 2. Formatting Tags , <i>, <u>, ,
- 3. Form Tags <form>, <input>, <button>, <select>, <textarea>
- 4. Media Tags , <audio>, <video>, <iframe>
- 5. Table Tags , >, >,
- 6. **List Tags** , , , <dl>, <dt>, <dd>
- 7. Hyperlink and Navigation Tags <a>, <nav>
- 8. Metadata Tags <title>, <meta>, <link>, <style>, <script>

What are the types of HTML elements?

HTML elements are categorized into:

- 1. **Block-level Elements** Take up the full width of their container.
 - Examples: <div>, , <h1> to <h6>, <section>, <article>
- 2. **Inline Elements** Only take up as much width as necessary.

```
Examples: <span>, <a>, <b>, <i>, <u>
```

3. **Self-closing (Void) Elements** – Do not require a closing tag.

```
Examples: <img>, <input>, <br>, <hr>, <meta>
```

4. **Semantic Elements** – Provide meaning to the structure.

Examples: <header>, <footer>, <main>, <nav>, <article>, <section>



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5. **Non-Semantic Elements** – Do not provide meaning, only structure.

Examples: <div>,

What is the difference between One-dimensional (1D) elements and Two-dimensional (2D) elements?

Aspect	1D Elements	2D Elements
Definition	Elements that structure content in a single direction (horizontal/vertical).	Elements that structure content in both horizontal and vertical directions.
Examples	, <h1>, <u1>, <a>, (mostly linear content)</u1></h1>	, <canvas>, <grid> (tabular or graphical content)</grid></canvas>
Usage	Used for text, inline elements, and lists.	Used for creating tables, graphics, or layouts.
Layout Control	Basic structure, mainly controlled by CSS properties like display: block; or display: inline;.	Uses grid-based layout or coordinate-based positioning.

Examples:

1D Element (Linear):

```
This is a paragraph.
```

2D Element (Tabular/Graphical):

```
    NameAge

    John25
```



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What is HTML?

HTML (HyperText Markup Language) is the standard language for creating web pages.

What are HTML elements?

HTML elements are the building blocks of a web page, defined by start and end tags.

What is the difference between HTML and HTML5?

HTML5 is the latest version with new features like <canvas>, <video>, and <audio>, better semantics, and improved browser support.

What is a DOCTYPE in HTML?

A DOCTYPE declaration (<!DOCTYPE html>) tells the browser the HTML version to use.

What are HTML attributes?

Attributes provide additional information about an element, e.g., .

What is the difference between block-level and inline elements?

Block-level elements (<div>,) take up the full width, while inline elements (, <a>) only take up the necessary space.

What are semantic elements in HTML?

Semantic elements (<article>, <section>, <nav>, <header>) provide meaning to web content.

What is the difference between <div> and ?

<div> is a block-level container, while is an inline container.

What is the purpose of the <meta> tag?

The <meta> tag provides metadata like character encoding, viewport settings, and SEO descriptions.

What is the difference between absolute, relative, and fixed URLs?

Absolute: Full URL (https://example.com/page).



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- Relative: Path from the current page (/page).
- Fixed URLs do not change with the viewport.

What is the <header> element?

It represents the introductory content of a webpage or section.

What is the <footer> element?

It represents the footer of a page, usually containing copyright or links.

What is the <main> element?

It holds the primary content of a document.

What are the <section> and <article> elements?

- <section> groups related content.
- <article> represents self-contained, reusable content like blog posts.

What is the <nav> element?

It defines a navigation section containing links to other pages.

What is the <aside> element?

It defines content indirectly related to the main content, like sidebars.

What is the purpose of the <form> element?

The <form> element is used to collect user input and submit it to a server.

What are the different input types in HTML?

Common types: text, password, email, number, date, radio, checkbox, file, submit, etc.

What is the difference between GET and POST methods?

GET sends data in the URL, while POST sends data in the request body, making it more secure.

What does the placeholder attribute do?

It provides a hint inside input fields before users type.



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What is the purpose of the <label> element?

It associates text labels with form controls, improving accessibility.

What is the difference between name and id attributes?

id is unique within a page, while name is used to group form elements.

What is the required attribute?

It makes form fields mandatory before submission.

How can you create a dropdown list in HTML?

Using <select> and <option> elements:

```
<select>
  <option value="1">Option 1</option>
  <option value="2">Option 2</option>
</select>
```

What is the difference between radio buttons and checkboxes?

Radio buttons allow only one selection, while checkboxes allow multiple.

What is the difference between <button> and <input type="submit">?

<button> allows custom content inside, while <input type="submit"> only submits
the form.

How do you embed a video in HTML?

Using the <video> tag:

```
<video controls>
    <source src="video.mp4" type="video/mp4">
</video>
```

How do you embed an audio file?

Using the <audio> tag:

```
<audio controls>
     <source src="audio.mp3" type="audio/mpeg">
</audio>
```



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What is the <canvas> element used for?

It is used to draw graphics and animations with JavaScript.

What is the <iframe> element?

It embeds another webpage inside the current page.

What is the <svg> element used for?

It defines scalable vector graphics in XML format.

How do you autoplay a video?

Use the autoplay attribute in <video>.

How do you make an image responsive?

Use CSS max-width: 100%; height: auto;.

How do you create a table in HTML?

Using , (row), (header), and (data cell).

What are the types of lists in HTML?

Ordered (>), unordered (>), and definition (<dl>>) lists.

How do you create an anchor link in HTML?

Using Click here.

How do you open a link in a new tab?

Use target="_blank" in the <a> tag.

What is the purpose of rel="noopener noreferrer" in links?

It prevents security risks when opening links in a new tab.

How do you link an email address?

Using mailto: in the <a> tag:

Email Us

What is the <details> and <summary> elements used for?

They create expandable/collapsible content sections.



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What is the difference between id and class?

id is unique; class can be shared among multiple elements.

What is lazy loading?

It loads images and iframes only when they are needed.

What is the <noscript> tag?

It provides alternative content if JavaScript is disabled.

What is the contenteditable attribute?

It makes an element editable by the user.

What is the difference between innerHTML and textContent?

innerHTML includes HTML tags, while textContent only includes text.

How do you make an element draggable?

Add draggable="true" to an element.

What is the difference between <script> in the <head> vs <body>?

In <head>, it loads before rendering; in <body>, it loads after content.