

Text Formatting and Structure in HTML

1. Text Formatting Tags

Tags:

- ****
 - **Purpose:** Indicates that the text is of strong importance.
 - **Effect:** By default, renders text in bold.
 - **Example:** **Important** results in **Important**.
- ****
 - **Purpose:** Indicates emphasized text.
 - **Effect:** By default, renders text in italics.
 - **Example:** **Emphasized** results in *Emphasized*.
- ****
 - **Purpose:** Renders text in bold without implying importance.
 - **Effect:** Bold text.
 - **Example:** **Bold** results in **Bold**.
- **<i>**
 - **Purpose:** Renders text in italics without implying emphasis.
 - **Effect:** Italic text.
 - **Example:** **<i>Italic</i>** results in *Italic*.
- **<u>**
 - **Purpose:** Underlines the text.
 - **Effect:** Underlined text.
 - **Example:** **<u>Underline</u>** results in Underline.
- **<sub>**
 - **Purpose:** Creates subscript text.
 - **Effect:** Subscript text.
 - **Example:** **H₂O** results in H₂O.
- **<sup>**
 - **Purpose:** Creates superscript text.
 - **Effect:** Superscript text.

- **Example:** `x²` results in x^2 .

2. Lists

Types of Lists:

- **Unordered List ()**

- **Purpose:** Creates a list of items where the order does not matter.
- **Effect:** Typically displays items with bullet points.

```
<ul>
  <li>HTML</li>
  <li>CSS</li>
  <li>JavaScript</li>
</ul>
```

Ordered List ()

- **Purpose:** Creates a list of items where the order matters.
- **Effect:** Typically displays items with numbers.

```
<ol type="A">
  <li>React</li>
  <li>Redux</li>
</ol>
```

- **List Item ()**

- **Purpose:** Defines an item in a list.
- **Usage:** Used within `` or `` elements.

3. Tables

Components:

- **<table>**

- **Purpose:** Defines a table.

<tr>

- **Purpose:** Defines a row in the table.

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`<th>`

- **Purpose:** Defines a header cell in a table.
- **Effect:** Typically renders text as bold and centered.

`<td>`

- **Purpose:** Defines a standard cell in a table.

`<caption>`

- **Purpose:** Provides a caption or title for the table.

```
<caption>Programing Languages Popularity</caption>
<table border="1">
  <tr>
    <th>Languages</th>
    <th>Popularity</th>
    <th>Use Case</th>
  </tr>
  <tr>
    <td>JavaScript</td>
    <td>High</td>
    <td>Web Development</td>
  </tr>
  <tr>
    <td>Python</td>
    <td>High</td>
    <td>Data Science</td>
  </tr>
  <tr>
    <td>C++</td>
    <td>Medium</td>
    <td>Game Development</td>
  </tr>
</table>
```

Interview Questions:

Text Formatting

What is the difference between `` and `` tags in HTML?

- Answer:** The `` tag is used to indicate that the text has strong importance or emphasis, and browsers typically render it in bold. The `` tag is used to make text bold, but it does not convey any additional semantic meaning. `` is more semantically meaningful for accessibility and SEO.

``Important text`` vs. ``Bold text``

How do `` and `<i>` tags differ in HTML?

- Answer:** The `` tag is used to emphasize text, indicating stress or importance, and browsers typically render it in italics. The `<i>` tag simply makes text italic without implying any additional meaning. `` is semantically more meaningful for accessibility and SEO.

``Emphasized text`` vs. `<i>`Italic text`</i>`

What are the purposes of `<sub>` and `<sup>` tags in HTML?

- Answer:** The `<sub>` tag is used to display subscript text, which appears slightly below the baseline and is commonly used in chemical formulas (e.g., H`_{`2`}`O). The `<sup>` tag is used to display superscript text, which appears slightly above the baseline and is often used for exponents (e.g., x`^{`2`}`).

Water: H`_{`2`}`O and Exponent: x`^{`2`}`

What is the difference between `` and `` tags in HTML?

- Answer:** The `` tag is used to create an unordered list where the items are typically marked with bullets. The `` tag is used to create an ordered list where the items are numbered.

How do you create a list item in HTML?

- Answer:** List items in HTML are created using the `` tag, which must be placed within either a `` (unordered list) or `` (ordered list) tag.

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Can you nest lists in HTML? Provide an example.

- **Answer:** Yes, you can nest lists in HTML by placing a `` or `` tag inside a `` element of another list.

```
<ul>
  <li>Item 1
    <ul>
      <li>Sub-item 1</li>
      <li>Sub-item 2</li>
    </ul>
  </li>
  <li>Item 2</li>
</ul>
```

What tags are used to create a table in HTML?

- **Answer:** A table in HTML is created using the `<table>` tag. Within the table, `<tr>` is used for rows, `<th>` for header cells, and `<td>` for standard data cells. The `<caption>` tag can be used to add a title to the table.

How do you define a header cell in an HTML table?

- **Answer:** A header cell in an HTML table is defined using the `<th>` tag. Header cells are typically rendered with bold text and centered alignment.

What is the purpose of the `<caption>` tag in an HTML table?

- **Answer:** The `<caption>` tag is used to provide a title or description for an HTML table, typically displayed above the table.

How can you merge cells in an HTML table?

- **Answer:** You can merge cells in an HTML table using the `rowspan` and `colspan` attributes. `rowspan` merges cells vertically, while `colspan` merges cells horizontally.

```
<table border="1">
  <tr>
    <th rowspan="2">Name</th>
    <th colspan="2">Contact</th>
  </tr>
  <tr>
    <td>Phone</td>
    <td>Email</td>
  </tr>
  <tr>
    <td>Mahesh</td>
    <td>123-456</td>
    <td>Mahesh@gmail.com</td>
  </tr>
</table>
```