Text Formatting in HTML

Text formatting in HTML allows you to control the appearance of your text, adding emphasis, structure, and style. Here's a comprehensive look at the various HTML tags and techniques used for text formatting:

1. Basic Formatting Tags:

• (Paragraph):

- o Defines a paragraph of text.
- Browsers automatically add a blank line before and after each paragraph.
- Example: This is a paragraph of text.

> (Line Break):

- o Inserts a single line break within a paragraph.
- o It's an empty element (no closing tag).
- o Example: This is the first line.
br>This is the second line.

<hr>> (Horizontal Rule):

- o Creates a horizontal line that visually separates content.
- o It's an empty element.
- o Example: <hr>>

2. Emphasis and Importance:

• (Strong Importance):

- o Defines text with strong importance, typically displayed in bold.
- o Indicates that the text has strong emphasis.
- Example: This is important.

• (Bold):

- Defines bold text.
- o Used for stylistic purposes, without implying strong importance.
- Example: This is bold text.

 (Emphasized Text):

- o Defines emphasized text, typically displayed in italics.
- o Indicates that the text has emphasis.
- Example: This is emphasized.

• <i> (Italic):

- o Defines italic text.
- o Used for stylistic purposes, without implying emphasis.
- Example: This is <i>italic</i><text.</p>

<mark> (Marked Text):

- Defines text that should be marked or highlighted.
- Example: This text is <mark>highlighted</mark>.

3. Headings:

• <h1> to <h6> (Headings):

- Define headings of different levels, with <h1> being the most important and <h6> the least.
- Used to structure content and indicate hierarchy.
- Search engines use headings to index the structure and content of web pages.
- Example:

```
<h1>Main Heading</h1>
<h2>Subheading</h2>
<h3>Sub-subheading</h3>
```

Output:

Main Heading

Subheading

Sub-subheading

4. Quotations and Citations:

- <q> (Short Quotation):
 - o Defines a short inline quotation.
 - o Browsers typically insert quotation marks around the quoted text.
 - Example: He said, <q>Hello, world!</q>
- <blockquote> (Block Quotation):
 - o Defines a long quotation that is displayed as a separate block.
 - o Browsers typically indent the quoted text.
 - Example:

HTML

```
<blockquote cite="https://www.example.com">
    This is a longer quotation from an external source.
</blockquote>
```

• <cite> (Citation):

- o Defines the title of a creative work (e.g., a book, song, movie, etc.).
- Example: <cite>The Hitchhiker's Guide to the Galaxy</cite> is a science fiction comedy series.

5. Preformatted Text:

- (Preformatted Text):
 - Defines preformatted text, which is displayed in a fixed-width font and preserves spaces and line breaks.
 - Useful for displaying code or text with specific formatting.
 - o Example:

```
HTML

  function myFunction() {
    console.log("Hello, world!");
  }
```

6. Subscript and Superscript:

- <sub>(Subscript):
 - o Defines subscript text, which appears below the normal line.
 - Example: H₂O
- <sup> (Superscript):
 - o Defines superscript text, which appears above the normal line.
 - o Example: x²

7. Code and Computer Output:

- <code> (Code):
 - o Defines a fragment of computer code.
 - Example: The <code><p></code> tag defines a paragraph.
- <kbd>(Keyboard Input):
 - Defines keyboard input.
 - o Example: Press <kbd>Ctrl</kbd> + <kbd>C</kbd> to copy.
- <samp> (Sample Output):
 - o Defines sample output from a computer program.
 - Example: Sample output: <samp>Hello, world!</samp>

8. Text Styles Using CSS (Recommended):

While HTML provides basic formatting tags, it's generally recommended to use CSS for more advanced text styling. CSS allows you to control properties like:

• **font-family:** Specifies the font.

- **font-size:** Specifies the font size.
- **font-weight:** Specifies the font weight (e.g., bold).
- font-style: Specifies the font style (e.g., italic).
- **color:** Specifies the text color.
- **text-align:** Specifies the text alignment.
- **text-decoration:** Adds decorations like underlines.

Example using CSS:

```
HTML
<!DOCTYPE html>
<html>
<head>
  <title>Text Formatting</title>
  <style>
    .emphasized {
      font-style: italic;
      color: red;
    }
  </style>
</head>
<body>
  This is <span class="emphasized">emphasized</span> text using
CSS.
</body>
</html>
```

Output:

This is *emphasized* text using CSS.

Tag	Description	Category
	This tag is used to make the text bold .	Physical Tag
<i>></i>	This tag is used to make the text <i>italic</i> .	Physical Tag
 	This tag is used to make the text bigger. It is not supported in HTML5 .	Physical Tag
<small></small>	This tag is used to make the text smaller.	Physical Tag
<u></u>	This tag is used to underline text.	Physical Tag
<strike></strike>	This tag is used to strike through text. It is not supported in HTML5 .	Physical Tag
<tt></tt>	This tag is used to make text appear in teletype (monospace font). It is not supported in HTML5 .	Physical Tag
	This tag is used to bold text and give it semantic importance .	Logical Tag
	This tag is used to italicize text and give it <i>semantic emphasis</i> .	Logical Tag
	This tag is used to make superscript text (slightly above the normal line).	Other Tag
	This tag is used to make subscript text (slightly below the normal line).	Other Tag
<ins></ins>	This tag is used to indicate that content has been added (typically underlined).	Other Tag
	This tag is used to indicate that content has been deleted (typically struck through).	Other Tag
<mark></mark>	This tag is used to highlight text with a yellow background.	Other Tag