

HTML and CSS Basics

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1. HTML (Hypertext Markup Language)

- HTML is the standard markup language for creating web pages.
- It defines the structure and layout of a webpage using a series of elements and tags.
- Elements are represented by tags enclosed in angle brackets, such as `<p>` for paragraphs or `<h1>` for headings.
- Attributes can be added to elements to provide additional information, like `` where `src` is the attribute specifying the image source.
- HTML provides a hierarchical structure with elements nested within each other to create content and layout.

2. CSS (Cascading Style Sheets)

- CSS is used to style the appearance of HTML elements on a webpage.
- It separates the content from its visual presentation, allowing for consistent styling across multiple pages.
- CSS rules consist of selectors, properties, and values. Selectors target specific HTML elements, properties define the style, and values specify the appearance.
- Styles can be applied inline within HTML elements, internally within a `<style>` tag in the `<head>` section, or externally in a separate `.css` file linked to the HTML document.
- CSS can control various aspects of styling, including colors, fonts, margins, padding, layout, and responsiveness.

3. Basic Structure of an HTML Document

```
<!DOCTYPE html>
<html>
<head>
  <title>Page Title</title>
  <link rel="stylesheet" type="text/css" href="styles.css">
</head>
<body>
  <h1>This is a Heading</h1>
  <p>This is a paragraph.</p>
</body>
```

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</html>

4. Basic CSS Example

```
/* styles.css */
body {
    font-family: Arial, sans-serif;
    background-color: #f4f4f4;
}
h1 {
    color: blue;
}
p {
    font-size: 16px;
}
```

5. Combining HTML and CSS

- HTML provides the structure and content of a webpage, while CSS enhances its visual presentation.
- By linking CSS stylesheets to HTML documents, designers can create visually appealing and user-friendly web pages.
- Understanding the basics of HTML and CSS is essential for web development and design, as they form the foundation of building responsive and interactive websites.