Semantic vs Non-Semantic HTML

Overview

- Semantic HTML: Uses HTML tags that clearly describe their meaning in a human- and machinereadable way.
- Non-Semantic HTML: Uses HTML tags that do not convey meaning about their content.

Semantic HTML

Definition: Semantic HTML elements clearly describe their meaning both to the browser and the developer. These elements are intended to define the structure and content of the web page.

Examples:

- 1. <header>: Represents a container for introductory content or a set of navigational links.
- 2. <nav>: Represents a section of a page that links to other pages or parts within the page.
- 3. <section>: Represents a standalone section of a document, which does not have a more specific semantic element to represent it.
- 4. <article>: Represents a self-contained composition in a document, page, or site, such as a blog post, newspaper article, etc.
- 5. <aside>: Represents content that is tangentially related to the content around it.
- 6. <footer>: Represents a footer for its nearest sectioning content or sectioning root element.
- 7. <main>: Represents the dominant content of the <body> of a document.

Benefits:

- 1. Accessibility: Improves the accessibility of web pages by providing meaningful structure that assistive technologies can use to navigate and interpret the content.
- 2. SEO: Enhances search engine optimization by providing clear structure and meaning to the content, making it easier for search engines to index and rank.
- 3. Readability: Improves the readability and maintainability of the code by providing clear and descriptive tags.
- 4. Consistency: Promotes a consistent structure and layout across different pages and projects.

Example:

```
Auto (HTML, XML) ~
 <!DOCTYPE html>
 <html lang="en">
 <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Semantic HTML Example</title>
 </head>
 <body>
    <header>
        <h1>Welcome to My Website</h1>
        <nav>
            ul>
               <a href="#home">Home</a>
               <a href="#about">About</a>
               <a href="#contact">Contact</a>
            </nav>
    </header>
    <main>
        <article>
            <h2>My First Article</h2>
            This is the content of my first article. It's written in
 semantic HTML!
        </article>
        <aside>
            <h2>Related Links</h2>
            <l
               <a href="#link1">Link 1</a>
               <a href="#link2">Link 2</a>
            </aside>
    </main>
    <footer>
        © 2024 My Website
    </footer>
 </body>
 </html>
```

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Non-Semantic HTML

Definition: Non-semantic HTML elements do not convey any meaning about their content. They are used for layout purposes without providing any indication of what the content within them represents.

Examples:

- 1. <div>: A generic container for flow content that by itself does not represent anything.
- 2. : A generic inline container for phrasing content that does not convey any meaning.

Drawbacks:

- 1. Accessibility: Does not provide any meaningful structure for assistive technologies, making it harder for users with disabilities to navigate and understand the content.
- 2. SEO: Less effective for search engine optimization as it does not provide clear structure and meaning to the content.
- 3. Readability: Makes the code harder to read and maintain, especially for other developers who might work on the same project.

Example:

```
G)
Auto (HTML, XML) ~
 <!DOCTYPE html>
 <html lang="en">
 <head>
     <meta charset="UTF-8">
     <meta name="viewport" content="width=device-width, initial-scale=1.0">
     <title>Non-Semantic HTML Example</title>
 </head>
 <body>
     <div>
         <h1>Welcome to My Website</h1>
         <div>
            <l>
                 <a href="#home">Home</a>
                 <a href="#about">About</a>
```

```
<a href="#contact">Contact</a>
          </11>
       </div>
   </div>
   <div>
       <div>
          <h2>My First Article</h2>
          This is the content of my first article. It's written in non-
semantic HTML!
       </div>
       <div>
          <h2>Related Links</h2>
          < 111>
              <a href="#link1">Link 1</a>
              <a href="#link2">Link 2</a>
          </11>
       </div>
   </div>
   <div>
       © 2024 My Website
   </div>
</body>
</html>
```

Conclusion

- Semantic HTML is preferred for creating web pages that are accessible, SEO-friendly, and easy to read and maintain.
- Non-Semantic HTML should be used sparingly and mainly for layout purposes where no semantic meaning is required.
- Using semantic elements where appropriate makes the web more understandable for both humans and machines.

HTML <div> Tag Notes

Overview

- The <div> tag is a block-level container used to group elements together for organizing content.
- It does not provide any semantic meaning about its content.

Basic Syntax

```
Auto < div>Content goes here</div>
```

Example Usage

Basic Usage

Grouping Elements

Nesting < div > Elements

<div> tags can be nested to create more complex structures.

```
Auto (CSS) > Control CSS  
<div > Control CSS  
<di
```

<h2>Nested Div 1</h2>

Common Uses

- 1. Layout: <div> is often used to structure the layout of a webpage, such as creating sections for headers, footers, sidebars, and main content areas.
- 2. Grouping: Group related content together to form logical sections of the page.
- 3. Containers: Use <div> to create containers for various elements and content blocks.

Best Practices

- Use <div> for grouping and layout purposes when no other semantic tag is appropriate.
- Avoid overusing <div> elements to keep the HTML structure clean and readable.
- Use semantic HTML elements like <header>, <footer>, <section>, and <article> when the content has a specific meaning.

Conclusion

- The <div> tag is a versatile tool for grouping and organizing content on a webpage.
- While it lacks semantic meaning, it is essential for layout and creating containers.
- Use semantic tags where possible, reserving <div> for generic containers and layout structures.

By using these attributes and following best practices, you can effectively utilize the <div> tag to structure and organize your web content.

HTML Tag Notes

Overview

- The tag is an inline container used to mark up a part of a text or a part of a document.
- It is used to group inline elements for styling purposes.
- It does not provide any semantic meaning about its content.

Basic Syntax

Auto ×	Semantic vs Non-Semantic a twic - Evernote	ч
Content goes here		
Example Usage		
Basic Usage		
Auto ~		G
This is a simple span	span> example.	
Highlighting Text		
Auto ~		6
Here's a highlighted pa	rt of this sentence.	
Wrapping Text		
Auto >		G
The quick brown fox jumps ove	er the lazy dog .	
Nesting Elements		
 tags can be nested to create r 	more complex structures.	
Auto >		6
This is a nested 	span example.	
Common Uses		
1. Styling: Apply styles to a specific part	of the text within a larger block of text.	

- 2. Scripting: Use JavaScript to manipulate a specific portion of the text.
- 3. Inline Grouping: Group inline elements together without affecting the layout.

Accessibility

· Like zdive zenane doce not provide comantic meaning by itself It can be combined with ADIA

- attributes to improve accessibility.
- Example with ARIA role:

Auto (HTML, XML) ~

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This is a noted part of the sentence.

Best Practices

- Use for grouping and styling inline elements when no other semantic tag is appropriate.
- Avoid overusing elements to keep the HTML structure clean and readable.
- Use semantic HTML elements like , , <mark>, and <a> when the content has a specific meaning.

Conclusion

- The tag is a versatile tool for grouping and styling inline content.
- While it lacks semantic meaning, it is essential for applying styles and scripting to specific parts of a text.
- Use semantic tags where possible, reserving for generic inline containers and styling.

Difference Between <div> and