

## What is the difference between semantic and non-semantic elements. Explain it with example

Semantic and non-semantic elements are concepts from HTML (Hypertext Markup Language) that refer to the meaning and structure of HTML tags.

### Semantic Elements

Semantic elements clearly describe their meaning in a human- and machine-readable way. These elements provide additional meaning to the content enclosed within them, making the structure of the web page more understandable both to developers and search engines.

#### Examples of semantic elements:

- `<header>`: Represents a container for introductory content or a set of navigational links.
- `<nav>`: Defines a set of navigation links.
- `<article>`: Represents a self-contained piece of content that could be independently distributed or reused.
- `<section>`: Represents a thematic grouping of content, typically with a heading.
- `<footer>`: Represents a footer for its nearest sectioning content or sectioning root element.
- `<aside>`: Defines some content loosely related to the content around it.

#### Example:

```
<header>

<h1>Welcome to My Website</h1>

<nav>

  <ul>

    <li><a href="#home">Home</a></li>

    <li><a href="#about">About</a></li>

    <li><a href="#contact">Contact</a></li>

  </ul>

</nav>

</header>

<main>

  <article>

    <h2>Main Article</h2>

    <p>This is the main content of the page.</p>

  </article>

  <aside>

    <h2>Related Information</h2>

    <p>Some additional information related to the main content.</p>
```

</aside>

</main>

<footer>

<p>© 2024 My Website</p>

</footer>



## Non-Semantic Elements

Non-semantic elements do not provide any information about the content they contain. They are generic containers without a defined meaning.

### Examples of non-semantic elements:

- <div>: Defines a division or a section in an HTML document.
- <span>: Used to group inline-elements in a document.

<div>

<div>

<h1>Welcome to My Website</h1>

<div>

<ul>

<li><a href="#home">Home</a></li>

<li><a href="#about">About</a></li>

<li><a href="#contact">Contact</a></li>

</ul>

</div>

```
</div>

<div>

  <div>

    <h2>Main Article</h2>

    <p>This is the main content of the page.</p>

  </div>

  <div>

    <h2>Related Information</h2>

    <p>Some additional information related to the main content.</p>

  </div>

</div>

<div>

  <p>© 2024 My Website</p>

</div>

</div>
```

