



# **7 Semantic HTML Tags Every Developer Must Use.**

# 1. The Header Tag: <header>

**Purpose:** Defines the introductory content for a section or a page.

**Usage:** Contains site logos, navigation menus, and headings.

```
<!-- Non-Semantic header -->
<div id="header">
  <h1>Welcome to My Website</h1>
  <ul id="nav">
    <li><a href="/">Home</a></li>
    <li><a href="/about">About</a></li>
    <li><a href="/contact">Contact</a></li>
  </ul>
</div>
```

```
<!-- Semantic header -->
<header>
  <h1>Welcome to My Website</h1>
  <nav>
    <ul>
      <li><a href="/">Home</a></li>
      <li><a href="/about">About</a></li>
      <li><a href="/contact">Contact</a></li>
    </ul>
  </nav>
</header>
```

## 2. The Navigation Tag : <nav>

**Purpose:** Represents navigation menus on a webpage.

**Usage:** Identifies and structures navigation elements.

```
<!-- Non-Semantic nav -->
<div id="nav">
  <ul>
    <li><a href="/">Home</a></li>
    <li><a href="/about">About</a></li>
    <li><a href="/contact">Contact</a></li>
  </ul>
</div>
```

```
<!-- Semantic nav -->
<nav>
  <ul>
    <li><a href="/">Home</a></li>
    <li><a href="/about">About</a></li>
    <li><a href="/contact">Contact</a></li>
  </ul>
</nav>
```

### 3. The Main Tag : <main>

**Purpose:** Marks the main content of a webpage.

**Usage:** Contains the primary content of the webpage.

```
● ● ●  
  
<!-- Non-Semantic main -->  
  
<div class="main-content">  
  <h2>About Me</h2>  
  <p>A Full Stack Software Developer.</p>  
</div>
```

```
● ● ●  
  
<!-- Semantic main -->  
  
<main>  
  <h2>About Me</h2>  
  <p>A Full Stack Software Developer.</p>  
</main>
```

## 4. The Article Tag : <article>

**Purpose:** Defines a self-contained, independent piece of content.

**Usage:** Suitable for blog posts, news articles, forum posts.



```
<!-- Non-semantic article -->
<div class="article">
  <h2>What is JavaScript ?</h2>
  <p>JavaScript or JS is a...</p>
</div>
```



```
<!-- Semantic article -->
<article>
  <h2>What is JavaScript ?</h2>
  <p>JavaScript or JS is a...</p>
</article>
```

## 5. The Section Tag : <section>

**Purpose:** Groups related content within a webpage.

**Usage:** Useful for organizing content like chapters or thematic sections.



```
<!-- Non-semantic section -->
```

```
<div class="section">  
  <h2>Contact Me</h2>  
  <p>Connect with me on LinkedIn.</p>  
</div>
```



```
<!-- Semantic section -->
```

```
<section>  
  <h2>Contact Me</h2>  
  <p>Connect with me on LinkedIn.</p>  
</section>
```

## 6. The Aside Tag : <aside>

**Purpose:** Marks up content that is related to the main content on a web page but is not an integral part of it.

```
<!-- Semantic aside -->

<div>
  <article>
    <!-- Article Contents -->
  </article>
  <aside>
    <h3>Related Articles:</h3>
    <ul>
      <li><a href="/article/1">Article 1</a></li>
      <li><a href="/article/2">Article 2</a></li>
    </ul>
  </aside>
</div>
```

**Usage:** Used for sidebars, supplementary information, related articles, advertisements, etc.



## 7. The Footer Tag : <footer>

**Purpose:** Represents the bottom section of a web page.

**Usage:** Typically contains copyright information, contact details, or links to social media profiles.



```
<!-- Non-semantic footer -->
```

```
<div class="footer">  
  <p>&copy; 2021 My Site</p>  
</div>
```



```
<!-- Semantic footer -->
```

```
<footer>  
  <p>&copy; 2021 My Site</p>  
</footer>
```



# But, WHY ?

**Enhance Accessibility:** Semantic HTML ensures inclusivity by making content comprehensible to assistive technologies.

**Boost SEO Rankings:** Structured semantics help search engines understand and index your website more effectively.

**Improve User Experience:** Proper HTML semantics lead to clearer content organization and better readability.

The background of the image shows a blurred view of server racks in a data center, with some red indicator lights visible. A white, stylized speech bubble or callout box is positioned on the right side of the image, containing the text.

**Thank You for  
Reading !!**