

# HTML5 Semantic Tags

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## Inline vs Block Elements in HTML

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In HTML, elements are broadly categorized as **inline** or **block** based on how they behave in the document flow.

### Block Elements

- Start on a **new line**.
- Take up the **full width** available.
- Can contain **other block** and **inline** elements.

#### Common Block Elements:

- `<div>`
- `<p>`
- `<h1>` to `<h6>`
- `<section>`
- `<article>`
- `<ul>` , `<ol>` , `<li>`

#### Example:

```
<div>
  <h2>This is a heading</h2>
  <p>This is a paragraph inside a div.</p>
</div>
```

### Inline Elements

- Do not start on a new line.

- Only take up as much **width as necessary**.
- Usually used to style **small portions** of content within block elements.

### Common Inline Elements:

- `<span>`
- `<a>`
- `<strong>` , `<em>`
- `<img>`
- `<code>`

### Example:

```
<p>This is a bold word and this is a link.
```

### Summary

Feature	Block Elements	Inline Elements
New Line	Yes	No
Width	Full width	Width of content only
Nesting	Can contain any elements	Only other inline elements

## What Are Semantic Tags?

Semantic tags clearly describe the **meaning** of the content they contain. They help both developers and browsers understand the structure of the page.

### Example:

- `<div>` says nothing about its content.
- `<header>` clearly means it's a page or section header.

# Common Semantic Tags

Tag	Purpose
<header>	Top section of a page or section
<nav>	Navigation links
<main>	Main content of the page
<section>	A standalone section
<article>	Self-contained content like a blog
<aside>	Sidebar or extra info
<footer>	Bottom section of a page or section

## Example Usage

```
<!DOCTYPE html>
<html>
  <head>
    <title>Semantic Page</title>
  </head>
  <body>

    <header>
      <h1>My Website</h1>
    </header>

    <nav>
      <a href="#">Home</a> |
      <a href="#">About</a> |
      <a href="#">Contact</a>
    </nav>

    <main>
      <section>
```

```
<h2>Welcome</h2>

<p>This is the welcome section.</p>
</section>

<article>
  <h2>Blog Post</h2>
  <p>This is a blog post inside an article tag.</p>
</article>
</main>

<aside>
  <p>This is a sidebar with related links.</p>
</aside>

<footer>
  <p>Copyright © 2025</p>
</footer>

</body>
</html>
```

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## Tip

- Semantic tags improve accessibility and SEO.
- Use them instead of generic `<div>` and `<span>` wherever possible.