



O Topics

- HTML 5 Document Structure & Syntax (section, article, aside, header, footer, nav, dialog)
 - Attributes of HTML 5
 - Web Form (datetime, date, month, week, time, number, range, email, url)
- Audio / Video

• HTML 5 Document Structure & Syntax (section, article, aside, header, footer, nav, dialog):

- ➤ The basic structure of an HTML (Hypertext Markup Language) document refers to the overall organization and syntax of an HTML file.
- ➤ It consists of several elements that provide information about the web page's content, structure, and formatting.











Structure Explation

- DOCTYPE Declaration: <!DOCTYPE html> indicates the document type and version (HTML5).
- HTML Tag: <html> is the root element of the page
- Head Section: The <head> contains meta-information about the document:
 - <title>: Sets the title of the page displayed in the browser tab.
 - <meta charset="UTF-8">: Specifies the character encoding for the document (UTF-8).

 - <script src="script.js"></script>: Links to an external JavaScript file for functionality.
- Body Section: The <body> contains the content visible to users:
- <h1>: A main heading welcoming visitors.
- : A paragraph providing additional content.

HTML5 Syntax Rules

- Elements: Enclosed in angle brackets (e.g., <element>). Most elements have opening and closing tags, though some (like and
br>) are self-closing.
- Attributes: Provide additional information about elements. Defined within the opening tag (e.g.,).
- Nesting: Elements can be nested inside one another, but must be properly closed in reverse order (e.g., <div></div>).
- Comments: Added using <!-- Comment here -->.









❖ Tags

- Section
- Article
- Aside
- o Header
- Footer
- Nav
- Dialog

Section Tag

- > The <section> tag defines a section in a document.
- ➤ Use <section> to wrap related content, such as different topics on a webpage, parts of an article, or distinct areas of a report.
- ➤ Helps screen readers and other assistive technologies understand the structure of the content, making it easier to navigate.
- Example

```
<!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8" />
   <title>Example of Section Tag</title>
 </head>
   <h1>My Blog</h1>
     <h2>Introduction</h2>
     This section introduces the main topics of the blog.
   </section>
     <h2>Topic 1</h2>
     This section discusses the first topic in detail.
   </section>
     <h2>Topic 2</h2>
     This section covers the second topic with examples.
   </section>
 </body>
</html>
```

Run











Article Taq

- The HTML <article> tag defines an independent self-contained content in a document, page, application or a site.
- Example

```
• • •
   <!DOCTYPE html>
   <html lang="en">
    <head>
       <meta charset="UTF-8" />
       <title>Artical Tag</title>
     </head>
     <body>
       <article>
         <h2>Narendra Modi</h2>
         <i>(Naam to suna hi hoga) </i>
         >
          Narendra DamodarDas Modi is the 15th and current Prime Minister of
          India, Modi, a leader of the Bharatiya Janata Party (BJP), previously
          served as the Chief Minister of Gujarat state from 2001 to 2014. He is
           currently the Member of Parliament (MP) from Varanasi.
         </article>
     </body>
   </html>
```

Run

Aside tag

- The <aside> tag defines some content aside from the content it is placed in.
- The aside content should be indirectly related to the surrounding content.
- > The <aside> tag in HTML is used to represent content that is tangentially related to the main content of a document.











> Example

```
<!DOCTYPE html>
<html lang="en">
 <head>
   <meta charset="UTF-8" />
   <title>Artical Tag</title>
 </head>
 <body>
   <article>
     <h1>Main Article Title</h1>
     This is the main content of the article.
     <aside>
       <h2>Related Information</h2>
         This content is related to the main article but not essential to its
         main point.
       </aside>
   </article>
  </body>
</html>
```

Run

- Header Tag And Nav Tag
- <header> Tag
 - Purpose: The <header> tag is used to define the introductory content of a document or a section. It typically contains elements such as the site title, logo, and sometimes a tagline or introductory information.
 - Placement: It can be used at the top of the page or within any section or article.
 - Content: Common elements within a <header> include headings (<h1> to <h6>), logos (), and navigation links (<nav>).











<nav> Tag

- Purpose: The <nav> tag is specifically designed for navigation links. It helps search engines and assistive technologies understand that the links within it are for navigating the site.
- Placement: It's commonly placed within the <header> but can appear anywhere in the document where navigation is necessary.
- Content: The <nav> tag typically contains lists of links (often using
 elements).

Example

```
<!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8" />
  <title>Artical Tag</title>
 </head>
    <h1>My Website</h1>
      <l
        <a href="#home">Home</a>
        <a href="#about">About</a>
        <a href="#services">Services</a>
        <a href="#contact">Contact</a>
      </nav>
   </header>
 </body>
</html>
```

Run











❖ Footer

- ➤ The <footer> tag defines a footer for a document or section.
- ➤ A <footer> element typically contains:
 - copyright information
 - contact information
 - sitemap
 - back to top links
 - related documents

Example

- Dialog Tag
 - > The <dialog> tag defines a dialog box or subwindow.
 - The <dialog> element makes it easy to create popup dialogs and modals on a web page.











Attributes

Attribute	Value	Description
<u>open</u>	open	Specifies that the dialog element is active and that the user can interact with it











HTML5 Attributes

1. Global Attributes

```
1 <section
2  id="example"
3  class="container"
4  style="color: blue"
5  title="This is a tooltip"
6 >
7  Hello, World!
8 </section>
```

- id: Unique identifier for the element.
- class: Class names for styling.
- style: Inline CSS for styling.
- title: Tooltip text.

2. Input Attributes











- placeholder: Hints at the expected input.
- required: Makes the field mandatory.
- pattern: Specifies a regex for validation.

3. Media Attributes

- controls: Shows playback controls.
- autoplay: Plays automatically.
- muted: Starts muted

4. Data Attributes

```
1 <h1 data-user-id="12345" data-role="admin">User Info</h1>
```

• data-*: Custom data attributes.











- **❖** Web Form (datetime, date, month, week, time, number ,range, email, url)
 - Here's an overview of various HTML5 input types related to dates, times, numbers, and other forms, along with examples for each.

1. Datetime

- Note: The datetime input type has been deprecated. Use datetime-local instead.
- Example :

2. Date

- Description : Allows users to select a date.
- Example :











3. Month

- Description: Allows users to select a month and year.
- Example











4. Week

- Description : Allows users to select a specific week in a year.
- Example

5. Time

- Description :Allows users to select a specific time (hours and minutes).
- Example











6. Number

- Description : Allows users to enter a number.
- Example





