



# Agenda

- ➤ Media Elements (Audio, Video, and Iframe) with All Attributes
- ➤ Tables with All Attributes

#### **Media Elements: Audio**

The <audio> tag is used to embed audio content in a webpage. Key attributes:

- controls: Adds playback controls.
- > autoplay: Starts playing the audio automatically.
- loop: Replays the audio in a loop.
- > muted: Starts the audio in a muted state.
- > preload: Indicates how much of the audio should be loaded (auto, metadata, none).

```
<audio controls>
    <source src="audio.mp3" type="audio/mpeg">
    Your browser does not support the audio element.
</audio>
```

#### **Media Elements: Video**

The <video> tag is used to embed video content in a webpage. Key attributes:

- >controls: Adds playback controls.
- > autoplay: Starts playing the video automatically.
- ➤ loop: Replays the video in a loop.
- >muted: Starts the video in a muted state.
- >preload: Indicates how much of the video should be loaded (auto, metadata, none).
- poster: Displays an image before the video plays.

```
<video controls poster="poster.jpg">
    <source src="video.mp4" type="video/mp4">
    Your browser does not support the video element.
    </video>
```

#### **Media Elements: Iframe**

The <iframe> tag is used to embed external content (like videos or websites) in a webpage. Key attributes:

- >src: Specifies the source URL.
- > width: Defines the width of the iframe.
- ➤ height: Defines the height of the iframe.
- ➤ allowfullscreen: Allows full-screen mode for embedded content.
- ➤ frameborder: Specifies whether the iframe should have a border (deprecated).

```
<iframe src="https://example.com" width="600" height="400" allowfullscreen>
</iframe>
```

### **Introduction to HTML Tables**

HTML tables are used to display data in rows and columns, making it easy to compare and analyze information. Tables should be used for tabular data only, not for layout purposes.

#### **Introduction to HTML Tables**

#### When to use tables?

```
<caption>Monthly Sales Report</caption>
<thead>
 Month
  Sales
  Growth
 </thead>
January
  $10,000
  5%
```

#### **Table vs. Other Elements**

```
<caption>Product Comparison</caption>
<l
 Feature 1
 Feature 2
 Feature 3
<div class="grid-layout">
 <header>Header</header>
 <main>Main Content</main>
 <aside>Sidebar</aside>
</div>
```

### **Basic Table Structure**

#### **Essential Table Elements**

```
Header 1
 Header 2
 Header 3
Data 1
 Data 2
 Data 3
Data 4
 Data 5
 Data 6
```

#### **Basic Table Structure**

#### **Complete Table Structure Hierarchy**

```
<caption>Employee Information/caption>
<colgroup>
 <col style="width: 30%"> <!-- Second column with width -->
 <col span="2">
</colgroup>
 Name
   Position
   Department
   Salary
 </thead>
```

```
John Doe
  Developer
  IT
  $75,000
 Jane Smith
  Designer
  Creative
  $65,000
 Total
  $140,000
 </tfoot>
```

#### Element

```
<table
 id="employee-table"
                       <!-- Unique identifier -->
 class="data-table striped"
 border="1"
 cellpadding="5"
 cellspacing="0"
 width="100%"
 summary="Employee data with names, positions, and salaries"> <!-- For screen rea
```

Element (Table Row)

```
Regular row
 Normal styling
Highlighted row
 Special styling
Inline styled row
 Gray background
Total Row
 $1,000
```

Element (Table Data Cell)

```
Simple text
  $1,234.56
  Centered
   Line 1<br>
   Line 2<br>
   Line 3
  <strong>Bold text</strong><br>
   <em>Italic text
   <a href="#link">Link text</a>
```

Element (Table Header Cell)

```
Name
 Age <!-- Column header with scope -->
 Position <!-- Header with abbreviation -->
John Doe
 30
 Developer
Jane Smith
 25
 Designer
```

### **Table Headers and Scope**

The scope attribute is crucial for accessibility, helping screen readers understand the relationship between headers and data cells.

#### **Column Headers:**

```
<caption>Student Grades</caption>
<thead>

<!-- Each th with scope="col" identifies column headers -->
Student Name
Math
Science
English
Average
```

### **Table Headers and Scope**

The scope attribute is crucial for accessibility, helping screen readers understand the relationship between headers and data cells.

**Row Headers:** 

```
North America
$250,000
$275,000
$290,000
$310,000
Europe
$180,000
$195,000
$200,000
$215,000
Asia Pacific
$150,000
$165,000
$175,000
$190,000
```

**Complex Headers with Scope Groups** 

```
<caption>Sales Data by Quarter and Region/caption>
 Region
 Q1
 Q2
 Growth
 Sales
 Growth
 North
 $100K
 $110K
 South
 $95K
 5.5%
```

#### <thead> Element

### **Table Body, Header, and Footer**

```
<caption>Product Inventory</caption>
 Product Information
 Product ID
  Name
  Category
  Stock
 </thead>
```

### **Table Body, Header, and Footer**

Element

```
001
 John Doe
 $150.00
 Pending
 002
 Jane Smith
 $89.99
 Pending
003
 Bob Wilson
 $275.50
 Completed
 004
 Alice Brown
 $199.99
```

### **Table Body, Header, and Footer**

#### <tfoot> Element

### **Spanning Cells (Colspan & Rowspan)**

**Colspan (Column Spanning)** 

```
Page

This header spans 3 columns -->
Traffic Sources

Total
```

### **Spanning Cells (Colspan & Rowspan)**

#### **Rowspan (Row Spanning)**

```
<!-- Engineering department spans 4 rows -->

Engineering
Frontend
John Doe

Senior Developer
```

### **Spanning Cells (Colspan & Rowspan)**

#### **Complex Spanning Example**

```
Department
Q1
Q2
Total
Revenue
Expenses
Profit
Revenue
Expenses
Profit
</thead>
```

### **Table Caption**

#### <caption> Element

```
<!-- Basic caption -->
<caption>Employee Salary Information</caption>
<thead>
<!-- Table headers -->
</thead>

<!-- Table data -->
```

```
<caption>
   Website Analytics - March 2024
   <details>
     <summary>About this data
     This table shows website traffic data for March 2024,
       including page views, unique visitors, and bounce rates
        for each major section of the website.
   </details>
 </caption>
```

### **Column Groups and Styling**

#### <colgroup> and <col> Elements

## THANK Y ® U

