

Intermediate HTML

HTML Tables

HTML tables are used to display data in rows and columns similar to Excel sheets

Basic Tables

<table>

<tr>

<td> Data </td>

<td> Data </td>

</tr>

</table>

Tags Explained

Tag

Meaning

Purpose

<table>

Table Container. Wraps the entire table

<tr>

Table Row. Creates a row

<td>

Table Data. Adds a cell inside a row

<th>

Table Header. Adds bold + centered heading

Cell

Propose Semantic Table Structure

<table>

(numbers as ID) ~~which is better~~

<thead>

(names with ID)

<tr>

<th> Name </th> <td> robmack </td>

<th> Age </th>

</tr>

</thead>

<tbody>

<tr>

<td> Mohit </td>

<td> 20 </td>

</tr>

</tbody>

<tfoot>

<tr>

<td> Total </td>

<td> 1 </td>

</tr>

</tfoot>

</table>

Why use <thead>, <tbody>, <tfoot>?

- Improves readability
- Helps screen readers (accessibility)
- Makes tables easier to style with CSS
- Helps browsers understand table structure

Not required, but strongly recommended.

Table Attributes (Old vs Modern)

Old HTML (Avoid)

<table border="1">

<thead>

<tbody>

<tfoot>

Modern way (css handles styling): HTML's weak point
modern cells

```
table {
    border-collapse: collapse; border: none
}
td, th {
    border: 1px solid black; padding: 5px, margin: 0px
}
```

Common Table Mistakes

- (x) putting <td> directly inside <table>
- (x) forgetting <tr>
- (x) Using tables for page layout (DON'T)

HTML Forms (Most important topic)

Forms allow users to send data to a server

• Basic Form Structure

```
<form>
```

```
    <input type = "text">
```

```
</form>
```

But this is incomplete

• Complete Form Structure

```
<form action = "submit.html" method = "post">
    <label> Name: </label>
    <input type = "text" name = "username">
    <input type = "Submit">
</form>
```

Form Attributes (Very Important)

(*) action

<form action = "submit.html">

→ Defines where the data goes.

Example

- action = "index.html"

- action = "mailto:abc@gmail.com"

- action = "server.php"

(*) method

<form method = "post">

Method

(get) Encodes info in URL
Appends detail in URL

Post

Sends data securely

Example: Current location (URL) www.MHHC

Then click link of enter info here.

<form action = "submit.html" method = "get">

URL becomes

Submit.html?name = Mohit & age = 20

Post is preferred for sensitive data.

Input Types

• Text Input

<input type = "text">

Used for

- Name

- Titles

- Short text

Email Input

`<input type="email">`

- (✓) Automatically checks for valid email format

Password Input

`<input type="password">`

- (✓) Hides typed characters

Submit Button

`<input type="submit">`

- (✓) Sends form data

Radio Button

`<input type="radio" name="gender" value="male">`

`<input type="radio" name="gender" value="female">`

Same name = Only one option Selectable

Checkboxes

`<input type="checkbox">`

- (✓) Multiple Selections allowed in which each

`<input type="checkbox" checked="checked" value="true">`

Date input

`<input type="date">`

- (✓) Opens calendar UI

File Input

`<input type="file">`

- (✓) upload files

Range Slider

`<input type="range" min="0" max="10">`

Browser handles input with slider

Color picker

`<input type="color">`

Browser handles color picker

Labels (Extremely Important)

- Wrong Way

`<label> Name </label>`

`<input type="text">`

click here to click on it

- Correct way (Accessibility)

`<label for="name"> Name </label>`

`<input type="text" id="name">`

(✓) clicking label focuses input

(✓) Helps Screen Readers

(✓) Industry Standard

placeholder vs Value

`<input type="text" placeholder="Enter name">`

Attribute

Meaning

placeholder

Hint text

value

Default actual value

Required & Validation

`<input type="email" required>`

(✓) Browser prevents form submission

(✓) No javascript needed

Text

Textarea (Multi-line Input)

```
<textarea rows="5" cols="30"></textarea>
```

Used for:

- Messages
- Feedback
- Long description

Button vs Input Submit

```
<button>Submit</button>
```

v.s

```
<input type="submit">
```

(✓) <button> can contain HTML

(✗) <input> cannot

Form + Mailto

```
<form action="mailto:test@gmail.com" method="post"
      enctype="text/plain">
```

- Opens email client
- Not reliable for production
- Only for learning/demo

11 DIV & SPAN (Structural Tags)

- `<div>`

- block elements
- used to group content
- takes full width

`<div>`

`<h1> Hello </h1>`

`</div>`

- ``

- inline element
- used inside text

`<p> this is important </p>`

12 HTML ENTITIES

used to display reserved characters

Entity

`<`

Output

`<`

`>`

`>`

` `

Space

`©`

(c)

13 HTML Comments (contd.) What is it ??

<!-- This is a boy -->

ignored by browser

I used for notes / debuggers

14 HTML Semantic meaning (Pre CSS foundation)

<div> all <div>

HTML is not for Design It's for structure & meaning

Bad!

important

Good

 Important in <div>

why ?

Screen reader

SEO

Accessibility

15 Most Common Beginner Mistakes

- X No labels
- X No form method
- X styling in HTML instead of CSS
- X using tables for layout
- X forgetting name attributes in input
- X styling in HTML instead of CSS

Final Summary

- ✓ understand how data flows from browser to server
- ✓ Build real forms
- ✓ Structure clean, semantic HTML
- ✓ Write accessible & professional markup.
- ✓ Be ready for CSS & Java script