HTML TABLES

Content:

Tables

Table properties.

Heading, Phrasing, Interative sectioning tags.

Semantic tags in HTML5.

New Semantic elements: <dialog> <details> and <summary> .

Drag and drop.

Geolocation.

What is HTML Table?

HTML Table is an arrangement of data in *rows* and *columns* in tabular format. Tables are useful for various tasks such as presenting text information and numerical data. A table is a useful tool for quickly and easily finding connections between different types of data. Tables are also used to create databases.

```
(tr>
    Firstname
    Lastname
   Age
  Priya
   Sharma
   24
                      Output:
  (tr>
                                      Firstname Lastname Age
   Arun
                                      Priva
                                          Sharma
                                              24
   Singh
                                              32
                                      Arun
                                          Singh
   32
                                      Sam
                                          Watson
 Sam
   Watson
   41
```

Tags used in HTML Tables

HTML Tags	Descriptions
	Defines the structure for organizing data in rows and columns within a web page.
<u></u>	Represents a row within an HTML table, containing individual cells.
<u>></u>	Shows a table header cell that typically holds titles or headings.
<u></u>	Represents a standard data cell, holding content or data.
<caption></caption>	Provides a title or description for the entire table.

<thead></thead>	Defines the header section of a table, often containing column labels.	
	Represents the main content area of a table, separating it from the header or footer.	
<tfoot></tfoot>	Specifies the footer section of a table, typically holding summaries or totals.	
<col/>	Defines attributes for table columns that can be applied to multiple columns at once.	
<colgroup></colgroup>	Groups together a set of columns in a table to which you can apply formatting or properties collectively.	

Heading content

Heading content, a subset of flow content, defines the title of a section. This definition applies both to sections marked by an explicit <u>sectioning content</u> elements and to those implicitly defined by the heading content itself.

Elements belonging to this category are <h1> - <h6> and <hgroup> .

Note: Though likely to contain heading content, the headerheader<a hre

Note: The <u><hgroup></u> element is not recommended as it does not work properly with assistive technologies. It was removed from the W3C HTML specification prior to HTML 5 being finalized, but is still part of the WHATWG specification and is at least partially supported by most browsers.

Phrasing content

Phrasing content, a subset of flow content, refers to the text and the markup within a document. Sequences of phrasing content make up paragraphs.

Elements belonging to this category are:

- <abbr>
- <audio>
- <
- <bdi>
- <bdo>
-

- <button>
- <canvas>
- <cite>
- <code>
- <data>
- <u><datalist></u>

- <dfn>
- <u></u>
- <embed>
- <i>>
- <iframe>
-
- <input>
- < kbd>
- <label>
- <mark>
- <math>
- <meter>
- <u><noscript></u>
- <object>

- <output>
- <picture>
- ⟨progress⟩
- <<u><q>></u>
- <ruby>
- <u><s></u>
- <samp>
- <script>
- <select>
- <slot>
- <small>
-
-
- <u><sub></u>

- <textarea>
- <time>
- <u>> <u>></u>
- <var>
- <video>
- <wbr>

Interactive content

Interactive content, a subset of flow content, includes elements that are specifically designed for user interaction. Elements that belong to this category include:

- <button>
- <details>
- <embed>
- <iframe>
- <label>
- <select>
- <textarea>

Some elements belong to this category only under specific conditions:

- <a>, if the href attribute is present
- <audio>, if the controls attribute is present
- , if the usemap attribute is present
- <input>, if the type attribute is not in the hidden state
- <object> , if the usemap attribute is present
- <video> , if the controls attribute is present

What are Semantic Elements?

A semantic element clearly describes its meaning to both the browser and the developer.

Examples of non-semantic elements: <div> and - Tells nothing about its content.

Examples of semantic elements: <form>, , and <article> - Clearly defines its content.

Semantic Elements in HTML

Many web sites contain HTML code like: <div id="nav"> <div class="header"> <div id="footer"> to indicate navigation, header, and footer.

In HTML there are some semantic elements that can be used to define different parts of a web page:

- <article>
- · <aside>
- <details>
- <figcaption>
- <figure>
- <footer>
- <header>
- <main>
- <mark>
- < nav>
- <section>
- <summary>
- <time>





The additional information on the web page that the user can choose to view or hide is

specified using the <details> tag in HTML semantics. It serves as a disclosure widget through which users can access more data or exert control. It is used in conjunction with the <summary> tag. Technically, a summary tag is not required, but if you choose to omit it, the browser will use some default content. The <details> element encloses all the text that you want to display or hide, while the <summary> tag includes the section title and summary.

OUTPUT



Something small enough to escape casual notice.

<summary></summary>	Specifies the summary inside of the <details> </details> semantic tag	Used for the text in the disclosure widget
<dialog></dialog>	Represents an interactive dialog box	To create modal or popup dialogs

Drag and Drop

Drag and drop is a very common feature. It is when you "grab" an object and drag it to a different location.

Browser Support

The numbers in the table specify the first browser version that fully supports Drag and Drop.

API	0	0	(3)		0
Drag and Drop	4.0	9.0	3.5	6.0	12.0

```
<html>
<head>
<script>
function allowDrop(ev) {
  ev.preventDefault();
function drag(ev) {
  ev.dataTransfer.setData("text", ev.target.id);
function drop(ev) {
  ev.preventDefault();
  var data = ev.dataTransfer.getData("text");
  ev.target.appendChild(document.getElementById(data));
</script>
</head>
<body>
<div id="div1" ondrop="drop(event)" ondragover="allowDrop(event)"></div>
```

<!DOCTYPE HTML>

```
<img id="drag1" src="img_logo.gif" draggable="true" ondragstart="drag(event)" width="336" height="69">
</body>
</html>
Drag the W3Schools image into the rectangle:
```



The HTML Geolocation API is used to locate a user's position.

Locate the User's Position

The HTML Geolocation API is used to get the geographical position of a user.

Since this can compromise privacy, the position is not available unless the user approves it.

Using HTML Geolocation

The getCurrentPosition() method is used to return the user's position.

The example below returns the latitude and longitude of the user's position:

```
<!DOCTYPE html>
<html>
<body>
<h1>HTML Geolocation</h1>
Click the button to get your coordinates.
<button onclick="getLocation()">Try It</button>
<script>
const x = document.getElementById("demo");
function getLocation() {
  if (navigator.geolocation) {
    navigator.geolocation.getCurrentPosition(showPosition);
  } else {
   x.innerHTML = "Geolocation is not supported by this browser.";
function showPosition(position) {
  x.innerHTML = "Latitude: " + position.coords.latitude +
  "<br>Longitude: " + position.coords.longitude;
  </script>
  </body>
  </html>
```

Thanks