

HTML Basics - I



Date

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04

HTML → Hyper Text Markup language

↓
Linked pages

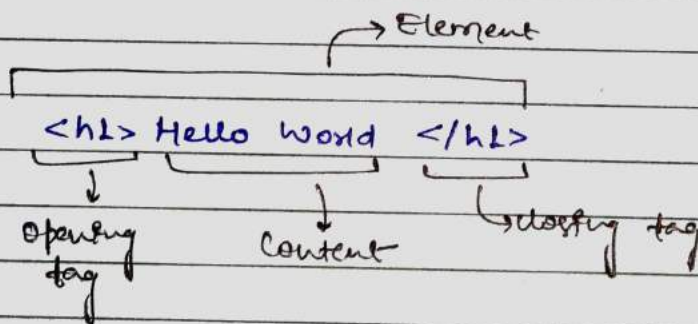
↓
Using annotations / tags
used to markup
contents of ~~text~~ texts

HTML → Skeleton / structure

CSS → Formatting / Appearance

JS → Functionality.

Tags → keywords / Annotations that tells the browser how to render different elements.



HTML Text Elements

Block Elements

<p>

<h1> - <h6>

 /

<article>

<section>

Inline Elements

<a>



Empty Tags / Self-closing Tags

↳ br, img, input

Lists

- Ordered list → Numbered / Counted
- Unordered list → Just a list
- Description list → Used to display metadata. <dl>

<dt> </dt> → terms

<dd> </dd> → descriptions.

--
--
--

</dl>

Attributes → Properties.

Eg → Src, width, id, --

→ All HTML elements, can have attributes.

→ Attributes are always mentioned in opening tags.

Meta Tags → Defines metadata about HTML doc.

↳ Always go inside head tag.

↳ It is not displayed to user.

- ↳ Used to specify -
 - charset
 - viewport [visible display area of screen]
 - Description
 - Keywords
 - Author

Device-width → width of the screen of the device where HTML doc is opened.

Initial-scale →

→ Tells the browser that it is an HTML5 document.

<!DOCTYPE html>

<html lang="en"> → Tells that content of web page is in english lang.

<head>

<meta charset="UTF-8">

<title> Document </title>

</head>

<body>

<p> HTML Document </p>

</body>

</html>

Containing
metadata
of the doc.

<pre> tags → preformatted text

↳ Present exactly as written in the HTML file

Tables.

table → whole table

tr → table row

td → data of rows [columns]

Caption → Name of table.

thead → Header of the table

tfoot → Footer of the table

th → Heading data items [usually in bold]

th should be used

thead

| MONTH | SAVINGS |
|-------|---------|
| Jan | 200 |
| Feb | 400 |
| Mar | 100 |
| Apr | 500 |
| TOTAL | 1200 |

tfoot



<label for="user"> Username: </label>

→ Should be same

<input type="text" name="user">

<input type="submit" value="Submit Here">

↓
Creates a button like

Submit Here

<form action="https://facebook.com">

→ Link will be opened when submit is clicked.

|
<input type="submit" value="Submit">

</form>

<input type="text" name="Name" required>

↓
makes the field required.

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Diagram illustrating rowspan and colspan attributes in a table:

| | | |
|-----|-----|-----|
| ABC | | ABC |
| ABC | ABC | ABC |
| ABC | ABC | ABC |
| ABC | ABC | |

Annotations:

- colspan = 2 (pointing to the first row)
- rowspan = 2 (pointing to the second and third rows)
- rowspan = 2 colspan = 2 (pointing to the fourth row)

→ The value of rowspan & colspan increases by the number of cells the data is spreaded.

Colgroup

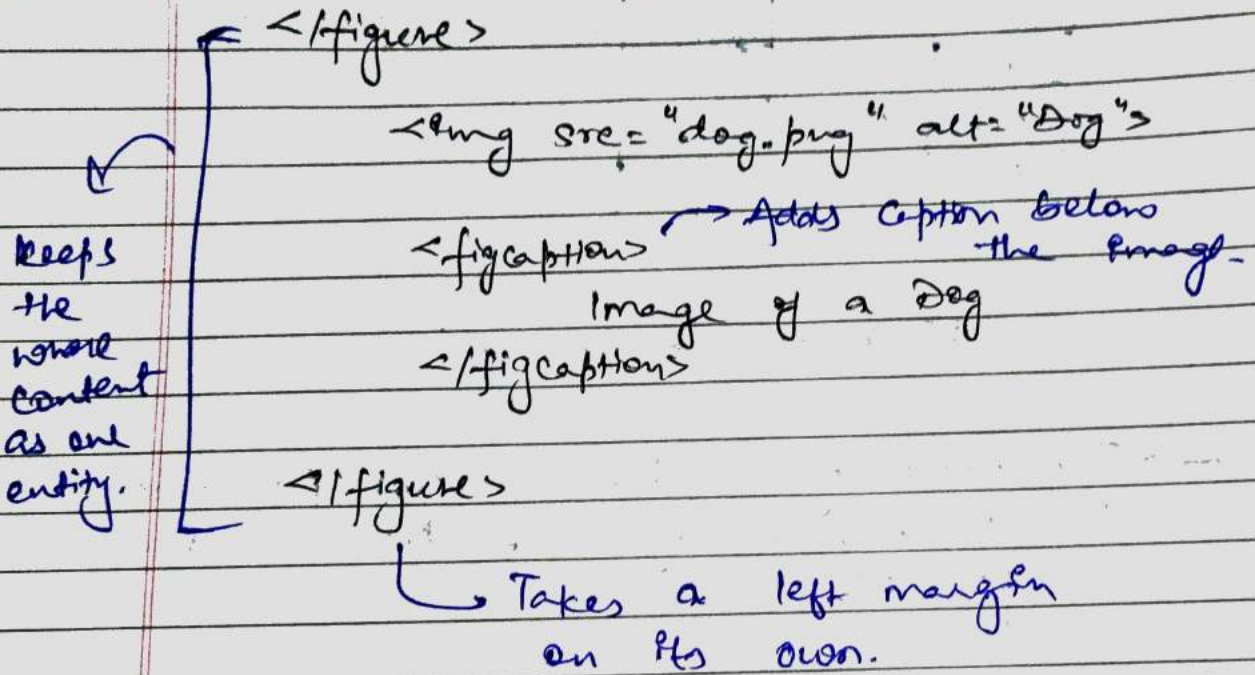
Diagram illustrating the use of the <colgroup> attribute:

```
<table>  
  <colgroup>  
    <col span="2">  
    <col span="3" style="background-color: red;">  
    <col span="1">  
    <col span="1" style="visibility: collapse;">  
  </colgroup>  
</table>
```

Annotations:

- leaves 2 cols as it is (pointing to <col span="2">)
- leaves next col as it is (pointing to <col span="3" style="background-color: red;">)
- colors next 3 cols in red (pointing to <col span="3" style="background-color: red;">)
- hides next col. (pointing to <col span="1" style="visibility: collapse;">)
- [visibility: hidden] doesn't work here. (pointing to the collapsed cell)

Figure Tag.





→ Text ` `
a → Call ` Call `
→ mail ` `

tel & mailto is added
for calling & mailing links.

* Bookmark is done by adding the
target id in `<a>` tag.

Div tag → Generic tag

↳ Used to create divisions. (Blocks)

Div → Block Display
span → Inline Display } By default

Semantic Tags → Provides special meaning
for the content.

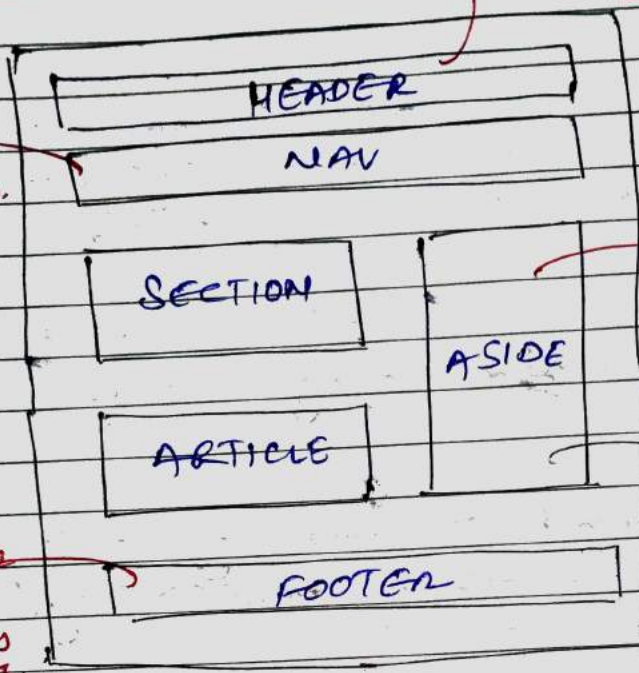
↳ E.g table, form, section, article.

→ figure, aside, header, footer,
main, nav.



Used for introducing part.

Includes navigation links.



Used for Ads, or Notes - etc.

[float right]

Details about author, copyrights, licences - etc.

iframe → Allows to embed other website on the page.

↓
Like video embedding
↳ window content.

[<iframe src = "target-link" > </iframe>]

↓

This link will run in the window.

Options.

<label for="gen"> Gender </label>

<select name="gen">

<option value="m"> male </option>

<option value="f"> female </option>

</select>

↪ Generates a drop-down list

Gender [male v]

<audio controls src="sample.mp3"> </audio>

<video autoplay controls src="sample.mp4" height="100">

↳ Attributes.

</video>