Basic HTML Structure

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <!-- Content goes here      -->
</body>
</html>
```

Structural Elements

Tag	Description
<html>	Root element of an HTML document
<head>	Contains metadata, links, scripts
<body>	Contains the visible page content
<header>	Introductory content or navigation
<footer>	Footer content
<main>	Main content of the document
<section>	Defines a section
<article>	Self-contained content
<aside>	Sidebar or additional info
<nav>	Navigation links
<div>	Generic container
<span>	Inline container

Text Formatting

Tag	Description
<h1> - <h6>	Headings (largest to smallest)
<p>	Paragraph
 	Line break (self-closing)
<hr>	Horizontal rule (self-closing)
<strong>	Strong importance (bold)
<em>	Emphasized text (italic)
<b>	Bold text
<i>	Italic text

<u>	Underlined text
<mark>	Highlighted text
<small>	Smaller text
<del>	Deleted text (strikethrough)
<ins>	Inserted text (underlined)
<sub>	Subscript
<sup>	Superscript

Links & Images

Tag	Description
<a href="">	Anchor (hyperlink)
<img src="" alt="">	Image
<map> and <area>	Clickable image map
<picture>	Responsive images
<figure> and <figcaption>	Image with caption

Multimedia

Tag	Description
<audio src="" controls>	Audio player
<video src="" controls>	Video player
<source>	Multiple media sources
<track>	Subtitles/captions for video/audio
<embed>	Embeds external content (e.g. PDF)
<object>	Embeds objects (e.g. Flash, PDF)
<iframe>	Inline frame (embed another webpage)

Lists

Tag	Description
	Unordered list
	Ordered list
	List item
<dl>	Description list
<dt>	Term in description list
<dd>	Description/details of term

Tables

Tag	Description
<tables>	Table
<tr>	Table row
<td>	Table data cell
<th>	Table header cell
<thead>	Group of header rows
<tbody>	Group of body rows
<tfoot>	Group of footer rows
<caption>	Table title/caption
colspan / rowspan	Merger columns/rows

Forms & Input

Tag/Input Type	Description
<form>	Form container
<input type="text">	Single-line text input
<input type="password">	Password input
<input type="email">	Email input
<input type="number">	Number input
<input type="submit">	Submit button
<input type="reset">	Reset button
<input type="checkbox">	Checkbox
<input type="radio">	Radio button
<input type="file">	File upload
<input type="date">	Date picker
<input type="range">	Slider
<label>	Label for input
<textarea>	Multi-line text input
<select>	Dropdown list
<option>	Option in dropdown
<fieldset>	Group form fields
<legend>	Caption for <fieldset>
required, readonly, disabled, autofocus, placeholder, checked, multiple	Common attributes

Meta & Head Elements

Tag	Description
<title>	Page title in the browser tab
<meta charset="UTF-8">	Character encoding

<meta name="viewportt">	Responsive design
<meta name="description">	Page description for SEO
<link rel="stylesheet">	Link external CSS
<style>	Internal CSS
<script>	JavaScript
<base>	Base URL for all relative URLs

Common Attributes

Attribute	Description
id	Unique identifier
class	Class name(s) for styling
style	Inline CSS
title	Tooltip text
alt	Alternate text (for images)
src	Source URL
href	Hyperlink reference
target	Where to open the linked document
rel	Relationship between current and linked document
type	Type of input, script, or link
value	Value of an input
name	Name of input for forms
action	Where to send form data
method	Form submission method (GET or POST)
placeholder	Placeholder text in inputs

Semantic HTML: Use semantic tags to improve accessibility and SEO:

- <header>, <footer>, <main>, <nav>, <article>, <section>, <aside>

Special Characters (HTML Entities)

Entity	Character
	(non-breaking space)
<	<
>	>
&	&
"	"
'	'
©	©
®	®

€	€
£	£
¥	¥

HTML5 APIs (Brief Overview)

- **Canvas:** <canvas> for drawing graphics.
- **Geolocation API:** Detect user location.
- **Web Storage:** localStorage and sessionStorage
- **Drag and Drop:** For dragging HTML elements.
- **Web Workers:** Background JavaScript threads.