

HTML & CSS Complete Guide (Easy Meaning + Example)

1 HTML: Easy Meaning + Example

HTML Structure

Tag	Meaning	Example
<!DOCTYPE html>	Tells browser this is HTML5	<!DOCTYPE html>
<html>	Whole HTML page	<html> ... </html>
<head>	Hidden info (title, CSS)	<head><title>My Page</title></head>
<title>	Page title	<title>Home</title>
<body>	Everything visible	<body><p>Hello</p></body>

Text & Headings

Tag	Meaning	Example
<h1>	Biggest heading	<h1>My Website</h1>
<h2>	Second heading	<h2>Section Title</h2>
<p>	Paragraph	<p>This is a paragraph.</p>
 	Line break	Hello World
<hr>	Horizontal line	<hr>
	Bold text	Bold
	Italic text	Italic
<mark>	Highlight text	<mark>Highlight</mark>
<small>	Small text	<small>Small text</small>
<sub>	Subscript	H₂O

<sup>	Superscript	x²
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Links & Images

Tag/Attribute	Meaning	Example
<a>	Link	Google
href	Link address	Go
target="_blank"	Open link in new tab	New Tab
	Show image	
src	Image source	
alt	Image text if not loaded	

Lists

Tag	Meaning	Example
	Bullet list	Item 1
	Number list	First
	List item	Item

Tables

Tag	Meaning	Example
<table>	Table container	<table>...</table>
<tr>	Table row	<tr>...</tr>
<td>	Table cell	<td>Cell</td>
<th>	Table header	<th>Header</th>
<caption>	Table title	<caption>My Table</caption>

Forms & Inputs

Tag/Attribute	Meaning	Example
<form>	Form container	<form>...</form>
<input>	Input box	<input type="text" placeholder="Name">
<textarea>	Big text box	<textarea>Type here</textarea>
<select>	Drop-down	<select><option>1</option></select>
<option>	Option in drop-down	<option>1</option>
<button>	Clickable button	<button>Click</button>
placeholder	Hint inside input	<input placeholder="Enter name">
name	Input name	<input name="username">
value	Pre-filled value	<input value="Submit">
checked	Default selected	<input type="checkbox" checked>
required	Must fill input	<input required>

Semantic HTML

Tag	Meaning	Example
<header>	Top of page	<header>Logo</header>
<footer>	Bottom of page	<footer>©2025</footer>
<nav>	Navigation menu	<nav>Links</nav>
<section>	Section	<section>Content</section>
<article>	Independent content	<article>News</article>
<aside>	Sidebar	<aside>Ads</aside>
<main>	Main content	<main>Main</main>

<figure>	Image with caption	<figure> <figcaption>Caption</figcaption></figure>
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2 CSS: Easy Meaning + Example

Text & Font

Property	Meaning	Example
color	Text color	color: red;
font-size	Text size	font-size: 20px;
font-family	Text font	font-family: Arial;
font-weight	Boldness	font-weight: bold;
text-align	Align text	text-align: center;
text-decoration	Underline, none	text-decoration: underline;
text-transform	Upper/lowercase	text-transform: uppercase;
line-height	Space between lines	line-height: 1.5;
letter-spacing	Space between letters	letter-spacing: 2px;

Box Model

Property	Meaning	Example
margin	Space outside box	margin: 10px;
padding	Space inside box	padding: 5px;
border	Border around box	border: 1px solid black;
width	Box width	width: 100px;
height	Box height	height: 50px;

Background

Property	Meaning	Example
background-color	Background color	background-color: yellow;
background-image	Background image	background-image: url('img.jpg');
background-size	Size of background	background-size: cover;
background-repeat	Repeat or not	background-repeat: no-repeat;
background-position	Position	background-position: center;

Display & Positioning

Property	Meaning	Example
display	Block, inline, flex, grid	display: block;
position	Relative, absolute, fixed	position: absolute;
top, bottom, left, right	Move element	top: 10px; left: 20px;
float	Move left or right	float: right;
clear	Stop float	clear: both;
z-index	Which element is on top	z-index: 5;

Flexbox

Property	Meaning	Example
display: flex	Flexible layout	display: flex;
justify-content	Align horizontal	justify-content: center;
align-items	Align vertical	align-items: center;
flex-direction	Row or column	flex-direction: row;
flex-wrap	Wrap to next line	flex-wrap: wrap;

Grid

Property	Meaning	Example
display: grid	Grid layout	display: grid;
grid-template-columns	Columns layout	grid-template-columns: 1fr 1fr;
grid-template-rows	Rows layout	grid-template-rows: 100px 100px;
gap	Space between items	gap: 10px;
grid-column	Span columns	grid-column: 1 / 3;
grid-row	Span rows	grid-row: 1 / 2;

Effects & Animations

Property	Meaning	Example
opacity	Transparency	opacity: 0.5;
transition	Smooth change	transition: all 0.5s;
transform	Move, rotate, scale	transform: rotate(45deg);
animation	Moving effect	animation: slide 2s infinite;
box-shadow	Shadow around box	box-shadow: 2px 2px 5px grey;
text-shadow	Shadow on text	text-shadow: 1px 1px black;
cursor	Mouse pointer style	cursor: pointer;

Selectors

Selector	Meaning	Example
*	All elements	* { margin: 0; }
element	Specific tag	p { color: red; }
.class	All elements with class	.text { font-size: 14px; }
#id	Single element with id	#main { width: 100px; }
element element	Element inside another	div p { color: blue; }

element > element	Direct child	div > p { margin: 5px; }
[attribute]	Element with attribute	[type=text] { width: 100px; }

Summary

This complete HTML & CSS guide contains:

- All basic to advanced HTML tags with meaning & example
- Forms, inputs, tables, lists, links, images, and semantic HTML
- All important CSS properties: text, font, box model, background, display, flex, grid, effects & animations
- CSS selectors with examples

You can use this single HTML page to study fast for exams or as a reference for projects.