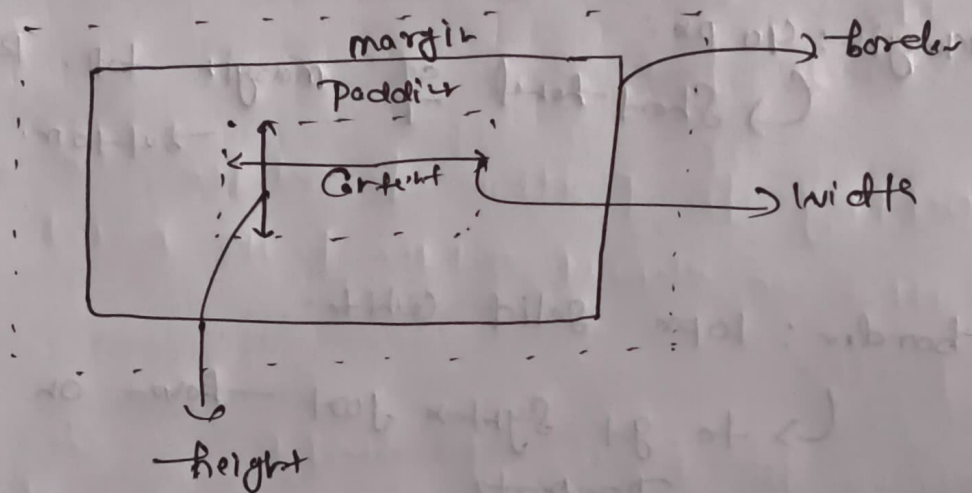


TI : 29 Jan 2026

## The Box Model

When rendering HTML document the browser put each element inside a box.

The box contain four areas : the Content area, the padding area, the border area and the margin area.



Padding is the space b/w the border and the Content area.

Margin is the space outside of an element and should be used to separate element from each other.

Margin Collapsing happens when the top or bottom margin of element are combined into a single margin. The size of margin is equal to the largest of the two margins.

- Common choice by developer, set box-sizing property border-box using universal selector

• By default box-sizing - Content Box

↓  
इसमें Content area पर width & height लगी है, padding / margin border से जुड़ा है।  
जिससे element बड़ा हो जाएगा,

margin: 40px;

↳ shorthand of margin top, Right, bottom, left

border: 10px solid white;

↳ to get syntax just hover on property

padding: 40px is 0px b/w Content and border.

padding: 20px

↳ Content के चारों तरफ 20px

- Browser also give box-model
- Just inspect the web page and  
for get Box-model
- Particular Selector Box-model to Place  
Detail that Selector

Note :- Designer में spacing सीखना ज्यादा  
जितना space होना चाहिए।

→ \*, universal Selector (apply to all element)

style.css

\*,

\*:: before

\*:: after {

margin: 0;

padding: 0;

~~Box-sizing: border-box;~~

}

Position

using the position property we can precisely position  
an element.

The default value of this property is static

if we change the value of this property, the  
element is considered positioned.



on webpage, we have three axes

i> Horizontal (x-axis)

ii> Vertical (y-axis)

iii> Depth (z-axis)

z-index is used to move element along the z-axis.

~ By default, z-index: 0

~ If we increase z-index element move toward us.

~ If we decrease z-index element move away from us.

By setting the position to relative, we can position an element relative to its normal position.

By setting the position to absolute, we can position it relative to its positioned parent/containers. That means the parent (or container) should be a positioned element.

By setting the position to fixed, we can position the element relative to the viewport.

By setting the position to sticky, the element behaves positioned relative to the viewport once the specified condition is met.

Absolute  $\rightarrow$  जहाँ खड़ा हो दिया वही खड़ा रहेगा

$\rightarrow$  किसी दूसरे को reference नहीं होगा

$\rightarrow$  यह also need reference

$\rightarrow$  किसी के proportional absolute position में रहेगा न

Static  $\rightarrow$  ये भी fixed ही रहेगा व फर

Condition को इतने px के बाद

fixed होगा,

Position: Static  
top: 20px

top से 20px होगा जो ही fixed होगा,

Relative  $\rightarrow$  इसी भी ये move करने के लिए रहेगा  
ये बराबर इसलिए इसके छोटा के element  
इसके relative move हो पाए।

• box 2

position: absolute;

bottom: 80px;

right: 20px;



absolute  $\rightarrow$  4

fixed  $\rightarrow$  मैदान जिगा भी बड़ा है  
wildcat keeper हमेशा उसी position  
पर रहता है।

box 2

position: fixed;

bottom: 100px;

}

↓

दुनिया इधर से उधर हो जाए  
हिलने वाला।

sticky:

box 2

position: sticky;

top: 100px

}

Position sticky (जिद रहता है) पर

Condition top: 100px होगा।

Parent &

Position: static;

top: 100px; // No effect

(10/25)

Note अगर Parent <sup>relative</sup> हो तो by default H browser  
body ~~को~~ <sup>में</sup> relative ~~हो~~, मिला दे।  
→ अगर parent relative है तो child parent के  
according positioned होगा।

\* Display ही viewport है

\* Pseudo-class Selector (!)

a: hover &

Color: deeppink;

whenever user : hover always use : focus to  
get some result, while navigating using tab key

: first-child is 1st child of article elements

: first-of-type is 1st occur of element



## Pseudo Element Selector (::)

~~Class~~ To style part of an element

P :: first letter

P :: first-line

:: selection in Any Selected Element

P :: before

P :: after in insert text after

## Semantic Elements

→ that element has meaning

<code> <time> <mark> <header> <footer>

<main>

So use only <div> and <span> elements when

no other semantic element is appropriate

## Structure of webpage

• use <header> to represent introductory content

• use <main> to represent the main content

of the page. Every page can have only one <main> element

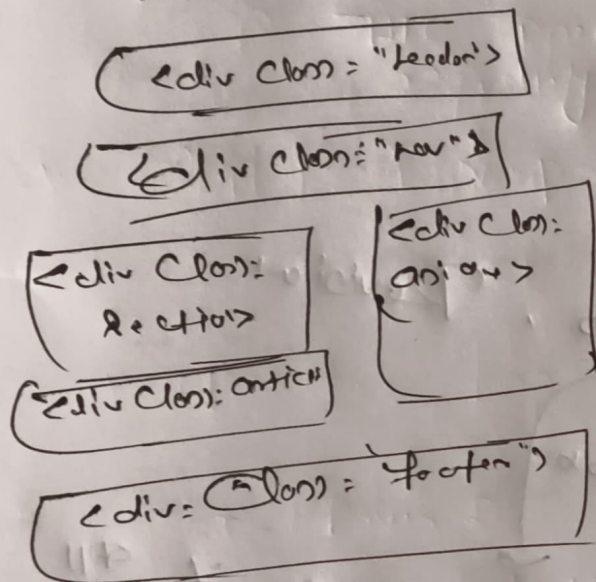
• use <section> to group related content



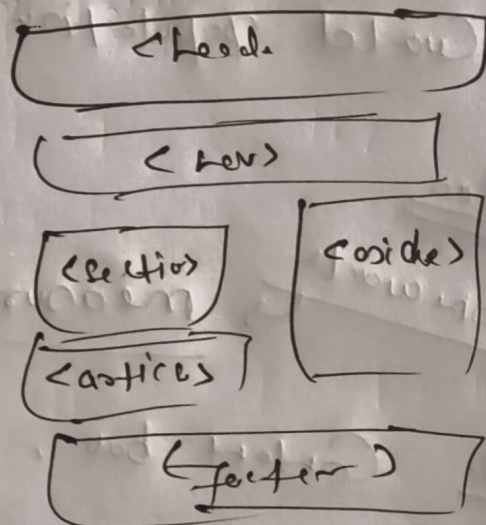
→ Use `<aside>` to represent Content that is directly related to the main Content.

→ Use `<footer>` to provide more information about Content.

## Non Semantic



## Semantic



→ Semantic use Karta ki website ki meaning hai HTML ke,

This is because visual don't tell the whole story. We use color and font size to draw sighted users' attention to the most useful part of the content like the navigation menu and related link, but what about visually impaired people? For example: who might not find content like "pink" and "large font" very useful?

Roughly 8% of men and 0.5% of women are colourblind; or to put it another way, approximately 1 in every 12 men and 1 in every 200 women. Blind and visually impaired people represent roughly 4-5% of the world population.

Ques

Homework

measuring units, Revision

Q Content box, border-box

px, rem, em, %

Note → ① Live Server ② HTML CSS Support,

③ auto rename tag

④ indent sidebar

⑤ Prettier



npm Create vite@latest  
or  
→ Run Create vite later

Select a framework  
→ vanilla

Select a variant  
→ JavaScript

Use Rollup - vite  
→ Yes

\* Output not lower A.B.C.D at Knew number  
80 <meta charset="UTF-8"> to keep  
byte to character.

→ vite में / से शुरू होगा मतलब Public  
Directory में आएगा

<meta rel="icon" type="image/svg+xml" href="/favicon.svg">

<link rel="stylesheet" href="/src/style.css">