

Anatomy of CSS Rule

<Style>

selector \Rightarrow tag to which style is to apply, here it is paragraph, heading

p {

color : blue ;

font-size : 200px ;

}

Properties

Values

} declarations which property and value separated by semicolon. ; is not complete

h1 {

color : green ;

text-align : center ;

}

</style>

whole is stylesheet.

Selectors

Used to HTML element to we want to style.

- 1) Element selector - selector which uses tag name as a selector for styling.

```
P {  
    color: blue;  
}
```

<P> --- <P>

<P> --- <P>



every paragraph is bl

- 2) Class selector - We define selector as a class with `.classname` selector and this class is assigned to required tags. many classes can be assigned one element as `class="Blue Red"`

.Blue {

<P class="Blue">

<P class="Blue"> --- <P>

<P> --- <P>

Blue text

colour: blue;

unaffected.

- 3) id selector

```
#name {  
    color: blue;  
}
```

<P> --- <P>

<div id="name"> --- <div>

Here id is given to div element from that id div element to which style is to be applied is identified and inside `<style>` we use id with `#` and assigned style to it.

Combining Selectors

1) Element with class selector.

P. big {

font-size = 20px;

}

<P class = big > --- </P>

<div class = big > --- </div>

space

only p elements with given class are affected
others are unaffected.

2) child selector

every p of article which is direct child gets the style.

article > P {

color : blue;

}

<article>

<P> --- </P>

<P> --- </P>

</article>

But p should be direct child.

3) Descendant selectors

article P {

color = blue;

}

<article>

<P> --- </P>

<div><P> --- </P></div>

</article>

Every P element inside article element irrespective of wheather it is direct element or not gets that style.

Various selector combinations

.colored p {

color: blue;

}

every element inside elements with class colored gets style

article > .colored {

color: blue;

}

every element having class colored and inside article and direct child gets style.

Adjacent Sibling Selector

div + p {

background-color: yellow;

}

adjacent sibling is element next to given element at same

<div>

<p> </p>

<div>

<p> </p>

<p> ——————
this element
gets it

General Sibling Selector

div ~ p {

background-color: yellow;

}

All the siblings
given element.

<div>

<p> </p>

<div>

<p> ——————</p>

<p> this gets <

<p> this also gets

Pseudo-Class Selectors

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selector : Pseudo-class {

Property: Value;

}

selector are chosen according to rule studied
and pseudo-classes classes can be as follows-

1) link - If element is a link

2) visited - If element visited

3) hover - If mouse hovers over

4) active - If mouse click on it but not released

5) nth-child(x) - Particular level of child's of element selected.

e.g. 1) a:hover {
 color: red;
 }

hoverning over link in a gives red colour to it.

2) p:hover, a:active {
 color: red;
 }

hovering over paragraph and clicking on it changes them to red.

CSS Pseudo-Elements

CSS pseudo-element is used to style specified parts of an element.

for e.g.

- 1) Style the first letter, or letter of an element
- 2) Insert content before or after the content of element.

Selector ::pseudo-element {

Property: value;

}

1) first-line - It styles first line of element only.

P ::first-line {
}

2) first-letter - It styles first letter of element

P ::first-letter {
}

3) before - It is used to insert something before like emoji with Content property

P ::before {
Content: url(smiley.gif);
}

4) after - used insert after content of element

5) selection - when element content is selected by user.

```
P::selection {  
    color: red;  
    background: yellow;
```

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Attribute Selectors

Used to style Elements having specific attribute.

Syntax

```
Element [attribute = "value"] {
```

```
}
```

e.g.

```
a [target = "_blank"] {  
    background-color: yellow;  
}
```

It styles link having blank as target attributes with background color yellow.

Other formats

1) element [attribute = "Value"]

Attribute with specific value.

2) element [attribute ~="Value"]

· [title ~="flower"]

when flower is one word inside title

3) element [attribute |= "Value"]

· [title |= "flower"]

when title start with space separated / (-) separated flower word

4) element [attribute \wedge "Value"]
[title \wedge "flower"]

when title like start with flower word flower may not be
separated like flower flower

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5) element [title *= "flower"]
[title *= "flower"]

when flower word occurred somewhere like in \wedge but
may not be separated by space or (-) like myfloweris
is title.

* Attribute selector is most useful for using
CSS for forms.

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Style placement.

1) style can placed in Elements. (Inline style)

<element style = "Property : Value;"> --- </P>

for e.g. -

<P style = "text-align: center;"> --- </P>

this method is least used because it is least reusable.

2) External style

<head>
<link rel = "stylesheet" href = "style.css">

</head>

[style.css]

body {
background-color : grey;
font size : 130%;
}

In this method external styling sheet is used and its reference is given with link
this method is used in real world application.
it is usefull when there are lots of pages to style as particular way.

3) Head styles - style with <style> tag (Internal)

<head>

<style>

p {

color : maroon;

}

</style>

</head>

Head style is used while overriding the external styles in real world application.

CSS colors

Properties and values

1) Property

i) color iv) opacity

ii) background-color

iii) border

2) Value

RGB & RGBA

1) rgb(R, G, B)

R, g, b ranges {0-255}

2) rgba(R, g, b, α)

α ranges {0-1}

B) EXADECIMAL-HEX

#000000

first, second and third "00"

to

are for R, G, B respectively

ffffff

HSL - HUE, SATURATION, LIGHT

1) hsl(h, s%, l%)

h - hue - colorwheel 0 is red, 120 is green, 240 is blue.

Saturation - degree of grey shade 0% is grey 100% is full color.

light - Degree of light from 0% to 100%

2) hsla(h, s%, l%, α) - α ranges [0-1]

Background

I) Background color

- i) background-color : i) "colorname";
- ii) rgb(r,g,b);
- iii) rgba(r,g,b,a);
- iv) hsl(h,s,l);
- v) hsla(h,s,l,a);
- vi) #000000;

ii) opacity : (0-1);

II) Background image

i) background-image : url ("url-format");

ii) background-repeat : repeat;

no-repeat;

repeat-x;

repeat-y;

iii) background-position : right top; right bottom; right

left top; left bottom; left

right center; left center;

top center; bottom center;

(x% , y%); (xpx, ypx);

III) Background Attachment

i) background-attachment : scroll; - background image scrolls
fixed; background image

IV) Background Shorthand - This property used to specify a background property in single line.

i) background : rgb(R,G,B)
url(" . ")

repeat
scroll
50% 50%;

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Any property of shorthand sequence can be missing but sequence should be same.

- i) color
- ii) image
- iii) repeat
- iv) attachment
- v) position

opacity property can be used with images, text etc so that image transparency can be controlled it is also set with the help of background-color property with opacity attribute (α)

IV) Back ground Shadow

i) text-shadow: 2px 2px 2px rgba(R,G,B, α);
 ↑ ↑ ↑ ↑
 Horizontal Vertical Blurr Color

Horizontal Vertical

can be negative for upward or left side

ii) box-shadow: 2px 2px 2px rgba(R,G,B, α)

Used for shadow of whole box containing element.

CSS Borders

Border style

- border-style : dotted; groove; inset; solid;
dashed; ridge; outset; double;
- border-style : dotted solid ridge dashed;
upper right bottom left.
- border-style : dotted solid ridge;
upper left right bottom
- border-style : dotted solid;
upper bottom right left.

Border width

- border-width : medium;
thick;
 x px;
- border-width : x px y px z px medium/thick;
top right ~~left~~ bottom left.
- border-width : x px y px;
top bottom

Border color

- border-color : color ; hsl(h,s%,l%);
rgb(R,G,B); rgba(R,G,B,A);
#ffffff;

Border sides

border-top-style : styles

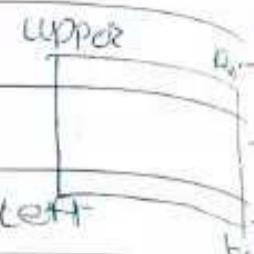
border-right-style : styles

border-bottom-style : styles

border-left-style : styles

Border Radius

- i) border-radius : 15px upper right bottom left ;
- ii) border-radius : 15px upper 15px right bottom ;
- iii) border-radius : 15px upperbottom righttop ;
- iv) border-radius : 15px all ;
- v) border-top-left-radius : 2em ;
- vi) border-top-right-radius : 1 ;
- vii) border-bottom-left-radius : 50% ;
- viii) border-bottom-right-radius : 5px ;



Border Shorthand Property

border : 6px solid red ;

Order of values

- i) width
- ii) style (compulsory)
- iii) color

CSS Outlines

outline is used to making element stand out by a it outside borders with some spacing .

It has all the properties same as borders.

only one diffent property as follows :

outline-offset : xpx ;

Margins

margin : auto; // browser calculates
 α px; // length
 α em; // length
 α %; // α % width

margin - top : auto;

margin - bottom : α px;

margin - right : α em;

margin - left : α %;

margin : α px, γ px, β px, δ px;
 ^{upper} _{right} ^{bottom} _{left}

margin : α px, γ px, β px;
 ^{upper} _{right} _{left} ^{bottom}

margin : α px γ px;
 ^{upper} _{bottom} _{left} _{right}

margin : α px;
 all.

Padding

Same as that of margin.

Height & width

- i) height : auto; α px; α em; α %; inherit; initial;
- ii) width : auto; α px; α em; α %. inherit; initial;

auto - default value, browser calculate height width

α px - length

α em - length

α % - % of box containing it.

inherit - sets value to default.

initial - Parent's value.

i) min-width: 2px; 2em; 2%; auto; inherit;
ii) max-width: 2px; 2em; 2%; auto; inherit; initial;
iii) min-height: 2px; 2em; 2%; auto; inherit; initial;
iv) max-height: 2px; 2em; 2%; auto; inherit; initial;

max-min property used when resizing is concerned
browsers.

Text color

color : "color"; rgb(R,G,B); rgba(R,G,B,α); #000000, hsl()

background-color : "color"; rgb(R,G,B), rgba(R,G,B,α); #000000, hsl()

Text Alignment

text-align : justify; // every line stretched to same width.
right; left; center

vertical-align : top;
middle;
bottom;

Text decoration

text-decoration : overline; underline; line-through;
text which is not link should not be underline it
creates confusion.

Text transform

text-transform : uppercase;
lowercase;
capitalize;

Text spacing

text-spacing

letter-spacing

word-spacing

line-height

Text shadow

text-shadow : 2px 4px 2px "colour";
Horizontal vertical blur colour

CSS Fonts

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Font family - It used for multiple fonts when first font is not supported then next font selected as per compatibility of browser.

- i) If font name is more than one word then commas are used to quote them.
- ii) To start with font we want we make it a class name.

e.g.

```
.serif {  
    font-family : "Times New Roman", Times, se  
}
```

Font style

font-style : normal;
italic;
oblique;

Font weight

font-weight : normal;
bold;
900;

Boldness level [100-900]
in multiple of hundred

Font size

font-size : x px; // x px
x em; // x is relative to parent
x vw; // x is default and vw for

Font Google - The link of google fonts inserted and then font family is used.

<link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Sofia">

font-family: "Sofia";

Font Property shorthand

font: italic;
small caps;
bold;
12px;
Georgia, serif;

sequence

font-style

font-variant

font-weight

font-size (Required)

font-family (Required)

CSS links

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CSS properties for links are same as we applied text or blocks but other than this we need properties according to activities of mouse.

a:link { //unvisited link

a:hover { // hover ov.

a:visited { //Visited link

text-decoration: none;

}

a:active { // clicked li-

}

unordered list

```
ul {
    list-style-type: circle;
    square;
}

list-style-image: url('imageurl');
```

ordered list

```
ol {
    list-style-type: upper-roman;
    lower-roman;
    upper-alpha;
    lower-alpha;
```

Style position

```
li {
    list-style-position: outside;
    inside;
}
```

list have certain margin/paddings.

we can remove bullet point by setting style to none

list-style-type: none;

margin: 2px;

padding: 2px;

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CSS Tables

We can define borders, background colors etc.

We can define events of mouse etc to table and tr, th, td etc

table, th, td {

border-collapse: collapse;

border: 1px solid black;

}

Properties for table, th, td, tr

- i) border : 1px, solid, black;
- ii) border-bottom: 1px, ridge, red;
- iii) border-collapse: collapse; no-collapse;
- iv) width: 2px;
- v) height: 2px;
- vi) text-align: left; Right;
- vii) padding: 2px;
- viii) vertical-align: upper; bottom;
- ix) color: "color"
- x) background-color: "colour"

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CSS Layout - overflow - It decides how content that fits into box is handled.

- i) overflow : visible - overflow not clipped
hidden - overflow hidden
scroll - overflow handled with scrollbar completely
auto - scrollbar only when necessary.

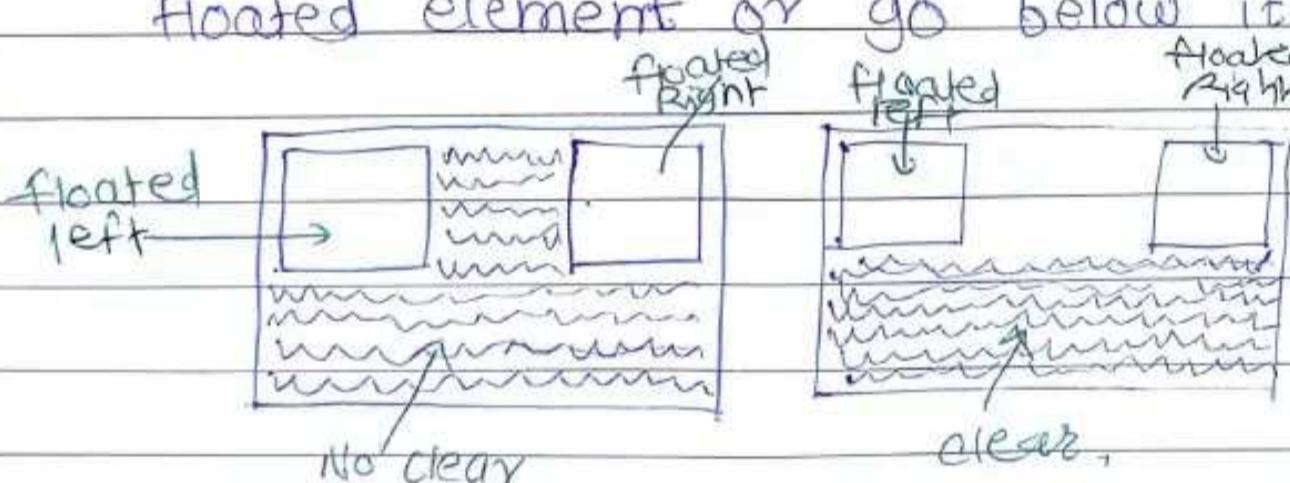
- ii) overflow-x
iii) overflow-y

// To handle overflow in x or y directions only.

CSS Layout - float & clear

float - specify how element should float, i.e. the property for positioning and formatting content inside of container.

clear - It is used after the float property to decide whether element should be on next to finally floated element or go below it.



- i) float : right;
left;
none;
inherit;

- ii) clear : right; // No floating element on right side
left; // No floating element on left side
both; // No floating element on either sides
none; // floating element on either side allowed
inherit; // inherit

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CSS Display - override element's inline or block properties.

~~display~~: inline;

block;

inline-block;

visibility: hidden;

// element affects layout but
is hidden.

CSS Position

The position property specifies the type of position method used for an element (static, relative, fixed, absolute or sticky)

Static

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Conflict Resolution

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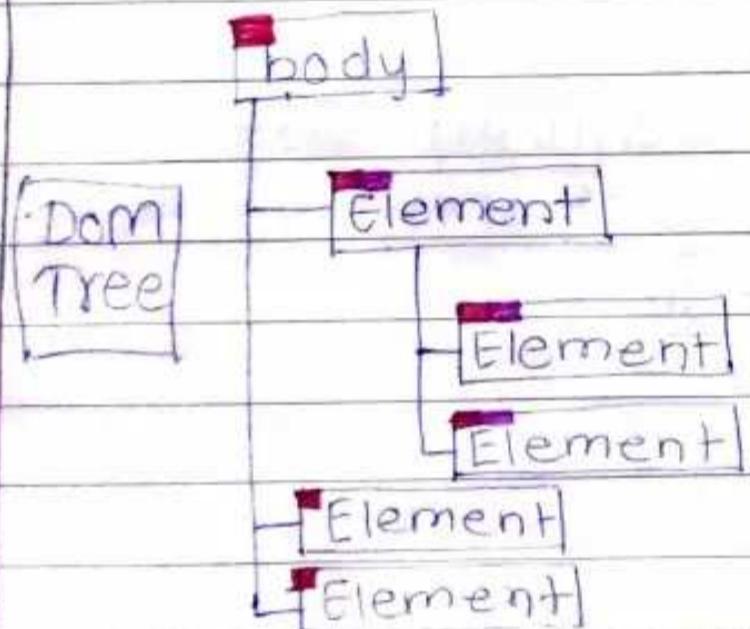
- 1) When there is conflict between two declaration we follow the rule - "Last declaration wins"

because HTML follows top-bottom approach

when external declarations have conflicts they follow the same rule as per the position of declaration as most of time `<link>` declared at head (top).

- 2) When there is no conflict it follows rule -
"Both declaration merged"

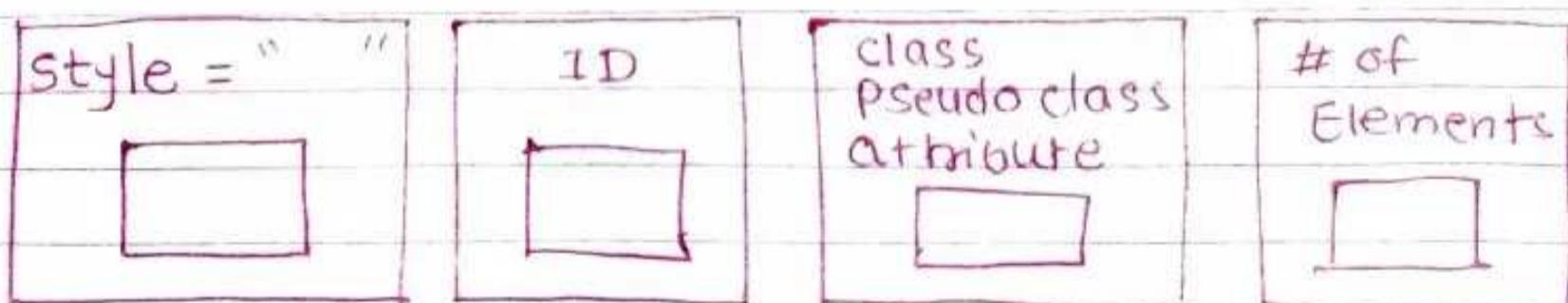
Inheritance



Any property given to parent element is also inherited by child element like properties color & background-color inherited.

- 3) Specificity - Most Specific Selector Combination Wins

To find the specificity we use specificity



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You,

`div #my para {`

`Color : blue;`

}

`div big p {`

`Color : green;`

}

style	ID	class	#element	style	id	class	#element
0	1	0	1	0	0	1	2

Score = 101

Score = 12

according to scores Paragraph gets blue color.

Overriding the specificity rules.

When declare the style with **!important** tag it overrides all of rules of cascading and use the same property declared with **!important** tag e.g. above example will show green color irrespective of their specificity score if we add important tag after property as -

color: green !important;

CSS Text Styling -

font-family - It gives different font choices for user's browser from which browser selected font which it supports.

e.g. font-family: Arial, Helvetica, sans-serif;

color - It allows to set colors either by name or by RGB formats in hexadecimal no. followed after #. or `rgba(0,0,0,0)` a for transperency.

e.g. color : `#0000ff;`
Red green Blue

font-style - It gives options like
i) Normal iii) italic
ii) oblique iv) inherit

e.g. font-style : italic;

font-weight - It gives boldness by assigning the word value **Bold** or numbers from `100, 200, 300 --- 900`

e.g. font-weight: 900;

font-size - The default is `16px` for most of browsers we can set it with `px` declaration or `%` of default.

e.g font-size : 24px;

But font sizes changes according to user make it zoom in or zoom out so keep everything relative to each other we style font size with relative styling method as follow.

body {

 font-size : 120%;

}

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Now when we want to change the style of font size we redeclare without overriding original but

relative to it, as.

`<P style = "font-size = 2em"> --- </P>`

2em, 3em, 4em or 0.1em, 0.2em gives font size of double, triple, ... respectively to parent font size which we set to 120% initially. As body is direct parent of `<P>`

Text Effects

P {

`text-overflow: clip ;` → Shubham saw
`ellipsis;` → Shubham saw

`word-break : keep-all;` ⇒ Break only at space
`break-all;` ⇒ Break at any character

`word-wrap : break-word` ⇒ It breaks word if not fitted in box

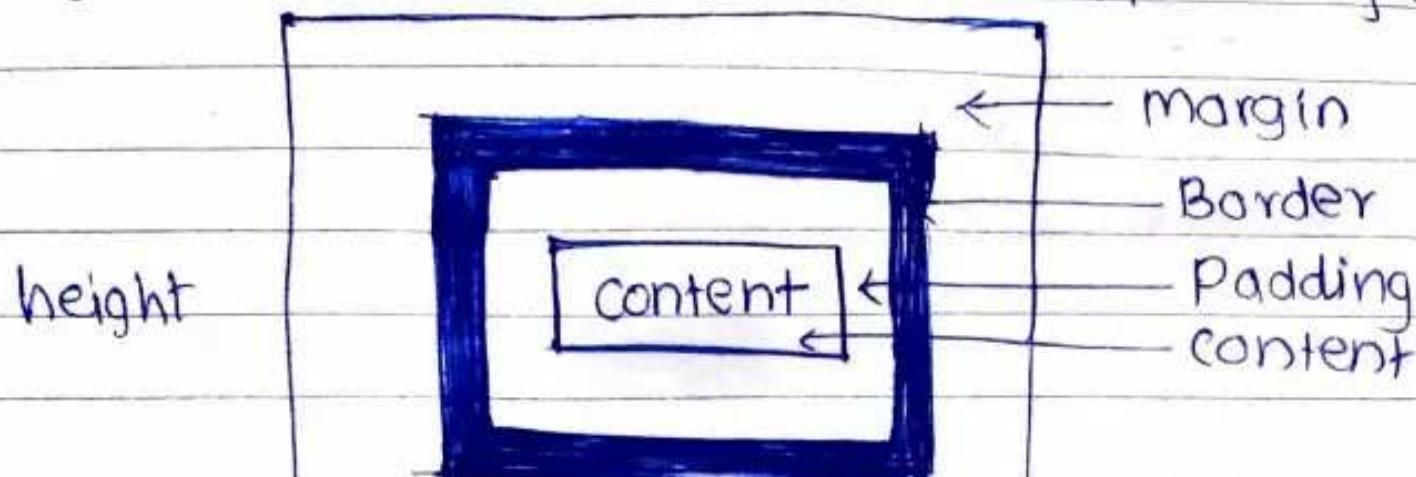
`writing-mode: horizontal-tb;` ⇒ write horizontally
`vertical-rl ;` ⇒ write upside down

}

Box Model

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The Box is the wrapper that wraps every HTML element



width

width = width + 2 × Border + 2 × Padding + 2 × margin
height = height + 2 × Border + 2 × padding + 2 × margin.

<style>

```
body { background-color : grey;  
       margin : 0;  
       padding : 0; }
```

```
#box {
```

```
background-color : green;  
padding : 10px, 10px, 10px, 10px // (T,R,B,L)  
border : 5px solid black;  
margin : 40px;  
width : 30px;  
height : 10px;
```

```
#content {
```

```
background-color : violet;
```

```
}
```

</style>

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<div id="Box">

<div id="content">

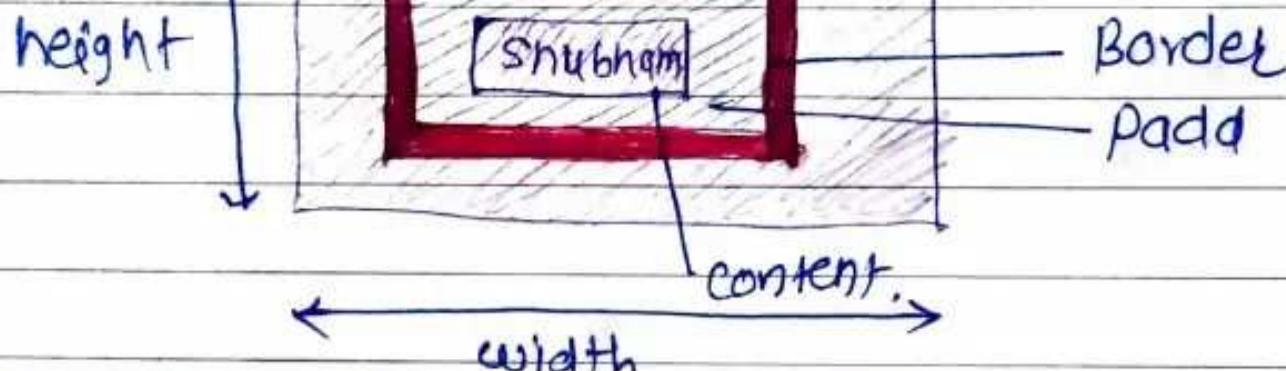
Shubham </div>

</div>

Output



Background with
margin



$$\text{width} = 30 + 5 + 5 + 10 + 10 = 60 \text{ px}$$

$$\text{height} = 10 + 5 + 5 + 10 + 10 = 40 \text{ px}$$

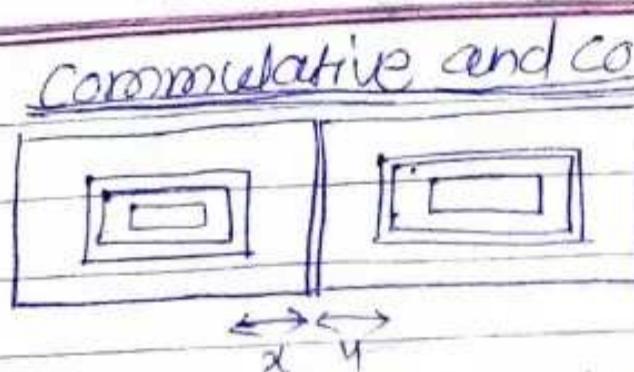
The width is always addition of all element inside element content, border and pad as box is defined to content but it can be changed.

using property `box-sizing: border-box;` inside that element styling it to parent like body, or *selector for all the element.

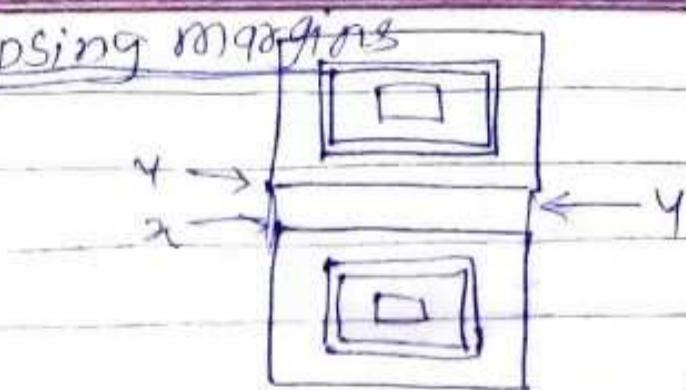
```
* {
    box-sizing: border-box; // for all elements
}
```

```
body {
    box-sizing: border-box; // for child elements
}
```

```
p {
    box-sizing: border-box; // for specific element
}
```



margins on same line
get commulated hence
[Net margin = 3(x+y)]



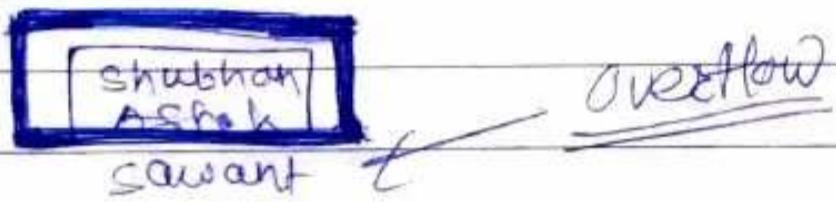
margin on top and below
boxes are merged with
biggest margin : $4 > 2$
margin = 4

overflow property

overflow - when box size is set to very low

with height and width and texts inside are overflowing outside the boxes then we use this command overflow to handle the situation.

overflow: visible - Default it cause text to overflow out
hidden - It hides the text that don't fit inside
auto - It provide scrollbar whenever necessary
scroll - It always provides two scrollbar even when not required.



CSS forms

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We use CSS forms to style the form element like input with different formats.

1) Input field

```
input {  
    width : 50%;  
    padding : 12px 20px;  
    margin : 8px 0;  
    box-sizing: border-box;  
    border : 2px solid red;  
    border-radius : 4px;  
    color : black;  
    background-color : white;
```

2) Input field with specific type

To style specific type of input.

```
input [type = text] {  
    }  
input [type = password] {  
    }  
input [type = number] {  
    }  
also button, submit, reset  
etc.
```

3) Focused inputs

To change the style when it gets focused (clicked)
we use focus selector for doing so.

```
input [type = text]: focus {  
    background-color: lightblue;  
    }  
    
```

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4) Input with icon/image

If we want icon inside the input use the background properties.

```
input [type = text] {  
    background-color: white;  
    background-image: url('searchicon.png');  
    background-position: 10px 10px;  
    background-repeat: no-repeat;  
    padding-left: 40px;  
    }  
    
```

5) Animated search input

Use transition focused properties to animate input when focused.

```
input[type="text"] {
```

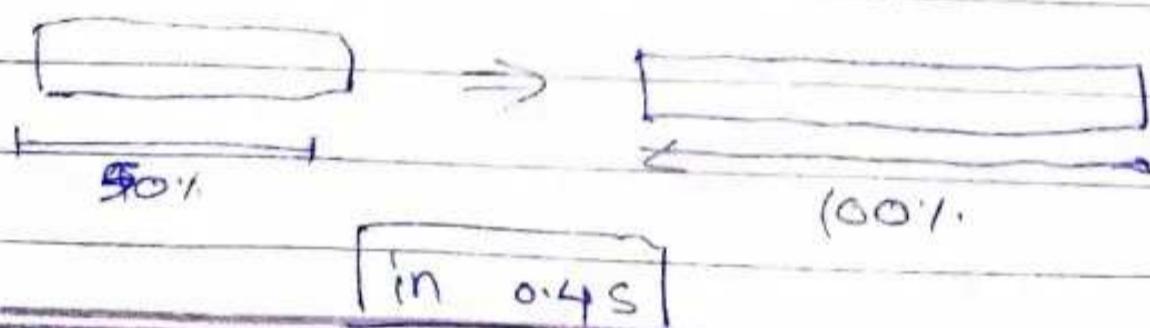
```
    transition: width 0.4s ease-in-out;  
    width: 50%;  
    padding: 4px;  
    background-color: white;
```

```
}
```

```
input[type="text"]:focus {
```

```
    width: 100%;  
}
```

Output



6) Textareas input - use resize property to decide whether textareas should be resizable or not

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Textareas

```
text area {
```

```
    resize: none;  
    width: 100%;  
    height: 50%;
```

```
}
```

7)

Select menus

```
select {
```

```
    width: 100%;  
    height: 20px;  
    border: 1px solid black;
```

```
}
```

CSS Animation

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1) CSS @keyframes Rule - @keyframes defines animation from changing one CSS style to other CSS style gradually with defined [to] selectors, or [from to] selectors as follows-

0% start
10%
50%
100% end

from (same as 0%)
!
to (same as 100%)

Syntax

@keyframes animationname {

keyframe {css-style}
selector

}

2) animation-name - used to apply animation with @key frames to CSS block in which its specified.

animation-name : name of animation ;

3) animation duration - duration in seconds.

animation-duration : 4s ;

4) animation-delay - delay to start animation in seconds.

animation-delay : 2s ;

5) animation-iteration-count - number of times it repeats.

animation-iteration-count : 3 ;

we can set to infinite for forever run of animation.

6) animation-direction - The direction in which animation to place.

animation-direction : normal

: reverse

: alternate - forward, backward

: alternate-reverse

7) animation timing function - defines animation speed curve

animation-timing-function: ease // start and end slow
: linear // same constant
: ease-in // slow start
: ease-out // slow end
: ease-in-out // slow start & end
: cubic-bezier(n,n,n,n) // defined by user

8) animation-fill-mode - style of element when element when the animation is not playing

animation-fill-mode: none / no style before after
: forwards // keeps last value
: backwards // keeps first value
: both . // extend property
forward & backward

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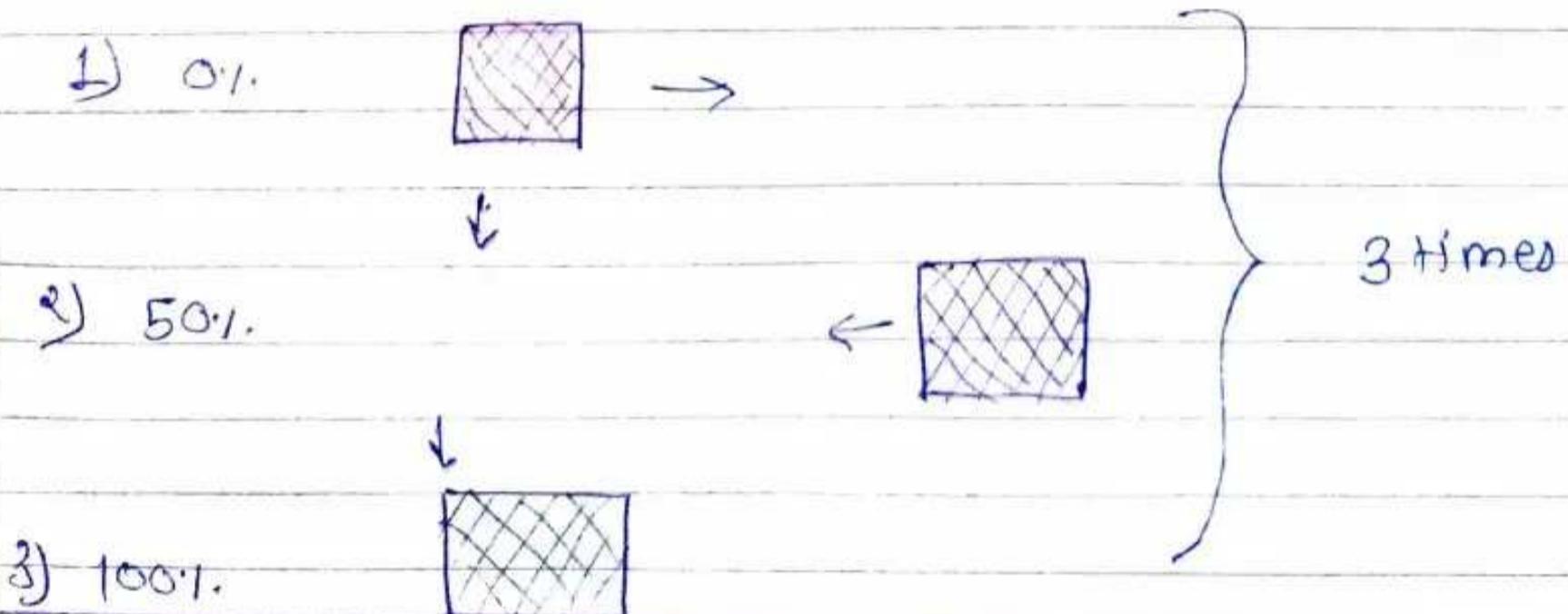
div {
width: 100px;
height: 100px;
background-color: red;
position: relative;
animation-name: example;
animation-duration: 4s;
animation-iteration-count: 3;
animation-direction: alternate;
animation-delay: 2s;
animation-timing-function: ease;
animation-fill-mode: forwards}

@keyframes example {

```
0%. { background-color: red; left: 0px; top: 0px; }  
50%. { background-color: blue; left: 200px; top: 0px; }  
100%. { background-color: green; left: 0px; top: 0px; }
```

{

Output



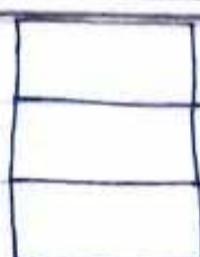
CSS Navigation bar

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Navigation bar is a kind of list of URLs.

It has base of HTML list elements and there are two kinds of navigation bars.

1) Vertical Navigation bar



vertical
navBar

ul {

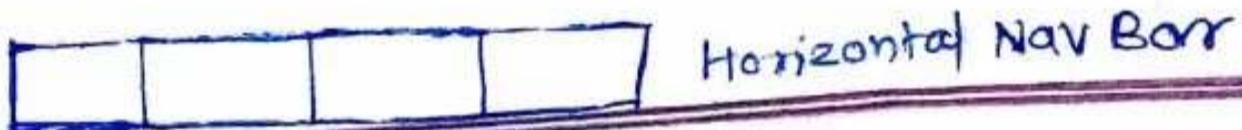
```
list-style-type: none;           // order style of list
width: 50%;                   // width of Navigation bar
background-color: #f1f1f1;       // background color
height: 50%;                  // height of Navigation bar
position: fixed;              // Position of Navigation bar with respect to webpage whether it should be fixed or move with page scroll.
overflow: auto;                // overflow defines what should happen with unfitte
```

}

elements of block
(Tabs of Nav bar)

```
li a {  
    display: block;  
    color: #000000; // to make block elements  
}  
  
li { text-align: center; // text aligns in tab  
}  
  
li a:hover { background-color: #555; // background color  
    color: white; when hovered over  
}  
    // color of text when  
    hover.
```

```
li a.active {  
    background-color: #CAE5E0;  
    color: white;  
}
```



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2) Horizontal Navigation bar

use **display: block** to make whole area clickable
float: left to float blocks
position: fixed to fix navigation bar on page.

```
li {  
    float: left;  
    position: fixed;
```

```
li a {  
    display: block;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;
```

```
li a:hover {  
    background-color: #111;  
}
```

```
.active {  
    background-color: #4CAF50;  
}
```

To make tabs divider in Navigation bar use
property border-right, border-bottom etc.

CSS Grid

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CSS grid used for defining elements like keypad.
when `div` elements are declared inside `div`
element then outer `div` is grid-container and
inside `div` are grid elements/items.

grid-container {

```
display: grid;  
grid-column-gap: 2px;  
grid-row-gap: 3px;  
grid-gap: 2px 3px;  
grid-template-columns: auto 30px auto  
grid-template-rows: auto 30px auto
```

No of element defined defines column, row
numbers auto is undefined size and size can
be given. here 3×3 created.

grid-items > div {

```
background-color: green;
```

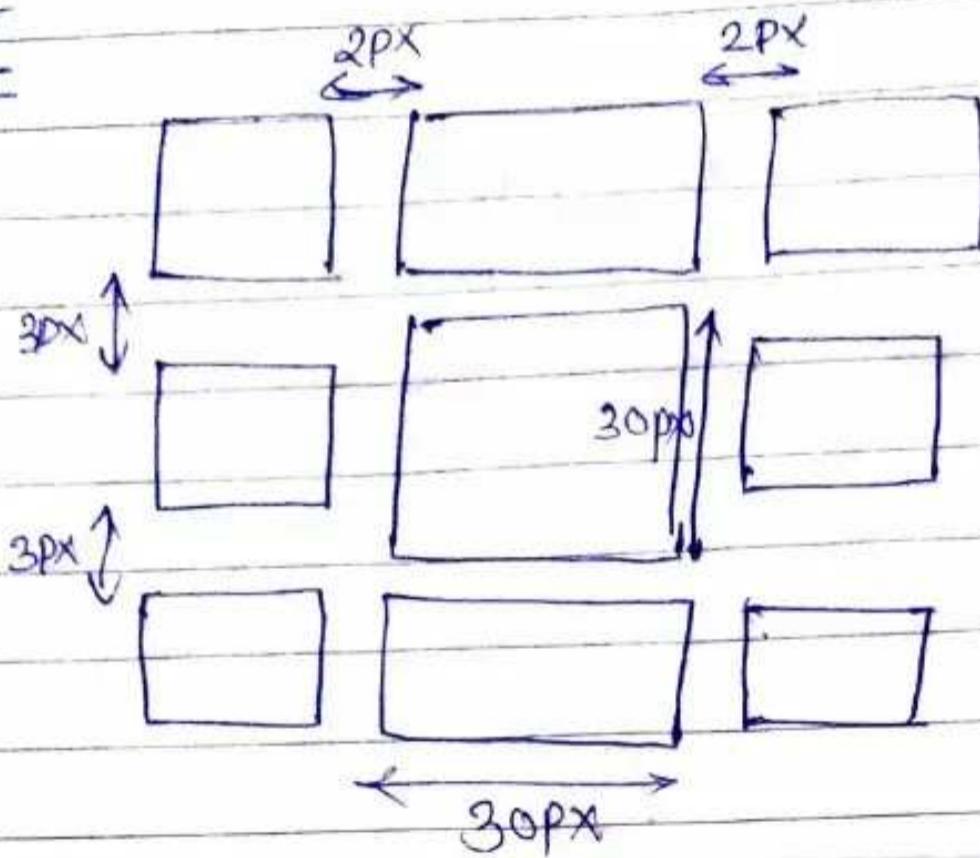
background-color: green;
text-align: center;
font-size: 20px;

}

```
<div class = "grid-container">
    <div> 1 </div>
    <div> 2 </div>
    <div> 3 </div>
    <div> 4 </div>
    <div> 5 </div>
    <div> 6 </div>
    <div> 7 </div>
    <div> 8 </div>
    <div> 9 </div>
</div>
```

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Output



CSS transitions

CSS transition allows you to change property value smoothly over given time.duration.

We define transitions with two selector blocks CSS one have property [transition] and one have pseudo-selector and properties to change as mentioned in [transition name].

```
div {  
    width : 100px;  
    height : 100px;  
    background-color : red;  
    transition - property : width height;  
    transition - delay : 2s ;  
    transition - duration : 4s ;  
    transition - timing - function : ease ;  
}
```

}

```
div:hover {  
    width: 200px;  
    height: 200px;  
}
```

As here hover over div may change the CSS property as per selectors and CSS blocks but transition only helps us to transform CSS properties with defined ways.

transition-property - properties to apply transitions
transition-timing-function: ease; linear;
ease-in; cubic-bezier(nm
ease-out;
ease-in-out;

CSS Units

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Absolute lengths

cm - centimeter
mm - millimeter

in - inch
px - pixels

pt - points
pc - picas

e.g. 20px, 20cm, 20mm

pixels are relative to viewing device screen
for low-dpi-device one pixel is 1 device pixels
for high-dpi-device one pixel is multiple pixels.

Absolute lengths are not recommended to use.

Relative lengths - It specify length relative to another length property. It is recommended method.

em - (2em means 2 times current font)

ex - relative to x-height of current font.

ch - relative to 0 width (zero's width)

rem - relative to font size of root element

vw - relative to 1% of width of viewport

vh - relative to 1% of height of viewport

vmin - relative to 1% of viewport's smaller dimension

vmax - relative to 1% of viewport's larger dimension

% - relative to parent element

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