

# Gradient :-

If set colors as a background in any container or on content also like background-clip.

\* Types :-

## (i). Linear gradient :-

e.g.- `<div> </div>`

`div {`

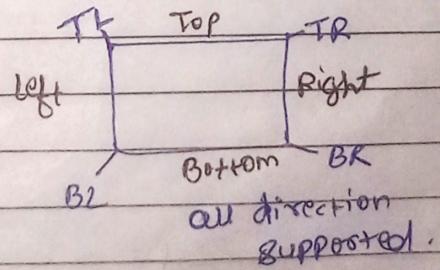
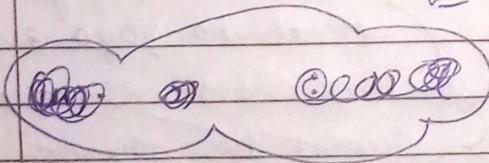
`Bg-image : linear-gradient  
(to right, red, yellow);`

→ Kitne tariko se lag-image & linear-gradient (Value);  
Jahan po value de.  
Satte hai. ↗

(ii). `Bg-image : linear-gradient ( more  
two or one color name );`  
e.g.- (red, yellow, pink, blue);

(iii).  `: ( direction, color names );`

e.g.- ( to right/left ) top/bottom, color );  
( to bottom Right etc. / to bottom left )



(iv). By angle :-

`: ( 45/90/-45/180 deg, colors );`

e.g.- (45 deg, red, yellow);

(iv).

By percentage :-

":)) (to right, Red, yellow, green 50%);

50% contains  
green color lg Jayega and  
bachhe hue 50%. Red, yellow  
me bat Jayega.

(v).

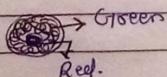
Transparency :-

":)) (to right, rgba(255, 0, 0, 1), rgba(255, 0, 0, 1));

2. Repeating-linear gradient :-(i) "":)) Repeating-linear-gradient (to right, Red, yellow 10%,  
green 20%);

(10% + 20% and)

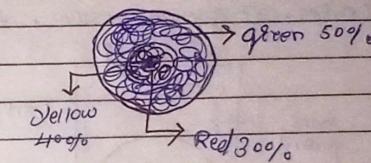
Red ka automatic  
Set ho Jayega +  
total ho gaya 30%  
and taaki space me  
Repeat ho Jayega yahi  
Kino colour Right hi  
taraf.

3. Radial-gradient :-(i). "": Radial-gradient ( Red, green );  
outputs:-

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By - percentage :-

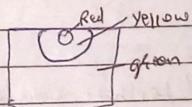
":)) ( Red 30%, yellow 40%, green 50%);

To make ~~circle~~ circle shape instead of ellipse :-

":)) ( circle, Red 30%, yellow 40%, green 50%);

(a) position of circle :-

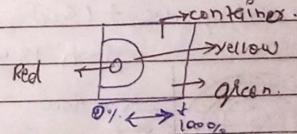
":)) ( circle at top, colors );



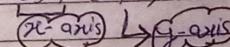
/TOP /TOP LEFT /TOP RIGHT /BOTTOM /BOTTOM LEFT

(b). circle position by % :- ( x-axis )

":)) ( circle at 0%, colors );

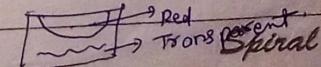
(c). circle position by % :- ( both x and y axis )

":)) ( circle at 25%, 30%, colors );

(d). Transparency :-

":)) ( ellipse at top, Red, transparent );

ops:-



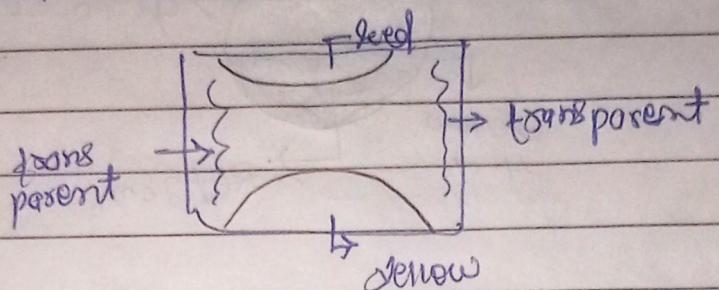
(v)

~~more than one~~

two radial gradient at one time :-

i) : ( ellipse at top, red, transparent),

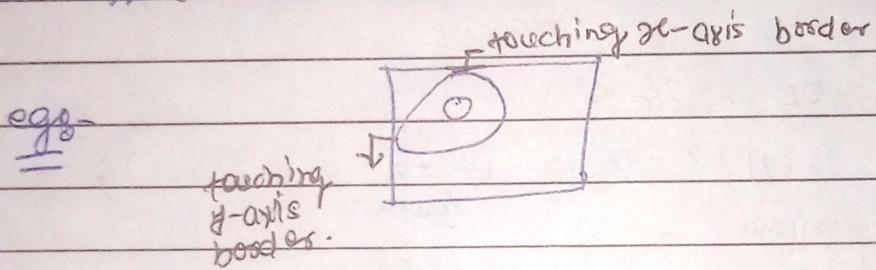
( ellipse at bottom, yellow, transparent);

egg-

(vi).

size of ellipse :-

v) : ( closest-side at 30% 40% , red, yellow, green);



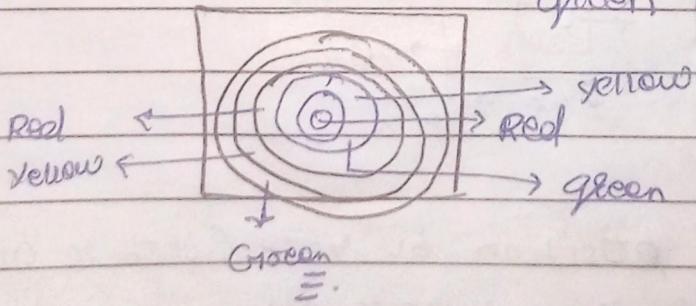
↳ closest-side / closest-corner / farthest-side / farthest-corner.

(vii).

Repeating - radial gradient :-

vi) Repeating - radial-gradient (red, yellow 15%,

green 15%);



## # overlay effect :-

Ex:- (1) `<div class="container">`

`<div class="image"> </div>`

`<div class="overlay"> </div>`

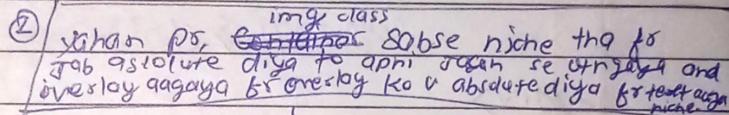
`<div class="text">`

`<h1> Hi developer </h1>`

`<b> it's overlay effect </b>`

`</div>`

`</div>`

(2)   
Yahan par, ~~absolute~~ <sup>img class</sup> sabse niche tha jo tab absolute divya to apni jahan se wryay and overlay gagaya to overlay ko u absolute divya for text aur niche

CSS :-

• container {

height : 100px;

background-color: dark-blue;

display : flex;

justify-content: center;

align-items : center;

→ position : relative;

• container .overlay {

height : 400px;

width : 600px;

background-image: linear-gradient

(to bottom, red, blue);

→ position : absolute;

opacity : 0.7;

3

• text { ~~position: absolute~~ }

z-index : 2

color : white;

font-size : 30px;

3

• container .img {

height : 600px;

width : 400px;

background-image: url('');

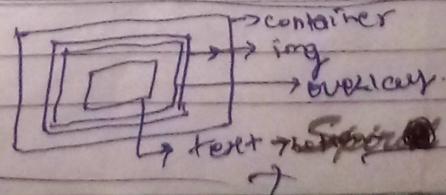
background-size : cover;

background-position: center;

→ position : absolute;

output:-

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## # Transform - property :-

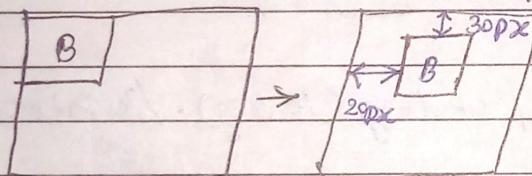
- (1). To translate.
  - (2). Scale.
  - (3). Skew.
  - (4). Rotate.

(1)- Translate :-

pehle wale di<sup>v</sup> ke relative age home usko  
kahi<sup>o</sup> bhejna ho to ham isko use karte hain<sup>o</sup>.

egō-

$$\langle d^{i^*} \rangle$$



$\alpha^{\circ} \vee \beta$

从...到...：从...到...

$(20px)$  or  $(20px, 30px)$

(2). Scale :- ~~increase~~

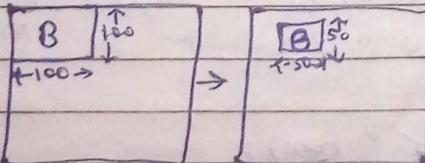
To decrease the size of dev by its previous size.

{dov}

$\text{Zd} \alpha v > B \langle \text{Id} \rangle^{\alpha v} \rangle$

L(d<sup>o</sup>v)

output:-



dev { width: 100px;  
height: 100px;

transformation scale (0.5 or 50%)

TS se  
with 50px and  
height 50px  
no padding.

$\leftarrow$  (iii) scale = (2);

(ii).  
Scalley (1)  $\int$  <sup>use nosy</sup> South me v

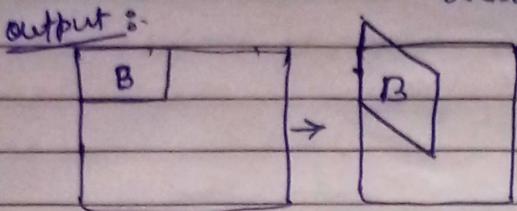
4

SKEW :-

Kisi particular angle me skew to sette hai.

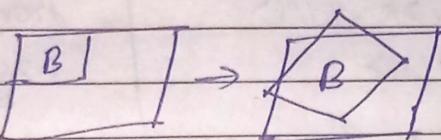
Output Date aayega.....

- (i) ~~transform~~: Skew ( $20^\circ$  deg,  $10^\circ$  deg) or ( $0^\circ$  deg,  $20^\circ$  deg)  
 axis axis's or  
 (20deg).



(ii) Rotate :-

- (i) transform : rotate( $20^\circ$ )  $\rightarrow$  z - direction



- (ii) transform : rotateX / rotateY ( $10^\circ$  deg) / rotateZ

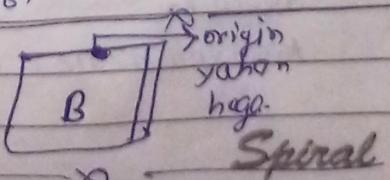
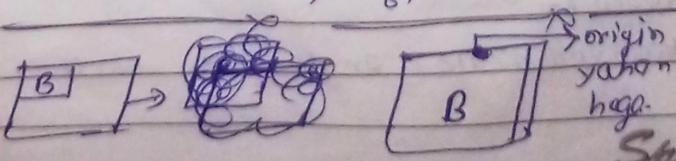
Notes all together :-

transform : rotate( $20^\circ$ ) scale (1.2) skew(3deg)  
 translate (45px);

# Transform - origin :- (By default (centre))  
 ye batte har  $45^\circ$  element kahan se  
 scale, skew, rotate and translate hogta.  
 e.g. Top, Bottom, Top-left, Top-Right, Bottom-left/  
 Right, Left. (All 8 direction.)

eg:-

transform: scale(20px) (20px);
transform: origin: Top-left, center, right, length, %;





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## 15. Animations :-

→ Koi naam variable ki tarah.

## (1). Animation-name :

- (i) box
- (ii) Container

## (2). Animation duration :

- (i). s
- (ii). ms.

## (3). Animation-timing-function :

- (i) ease = slow start + fast + slow end
- (ii) ease-in = slow start + linear.
- (iii) ease-out = linear + slow end
- (iv) ease-in-out = slow start + linear + slow end.
- (v) linear = same speed.

## 4. Animation-delay :

- (i) s
- (ii) ms.

## 5. Animation-iteration-count :

- (i) 1
- (ii) (2)
- (iii) ∞ (up to).

## 6. Animation-direction :

[default] (i) normal :

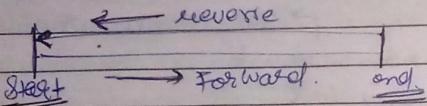
(ii) reverse:

(iii) alternate :

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(iv).

alternate - handle:



(v).

Animation - play-state:

- Lx hover me  
with state  
has Job hover  
no pause to trigger animations*
- (i). running (default).
  - (ii). pause.

\*\*\* Shortcut:-

↳ Animation:	Animation	Anim.	Anim.-	Anim.-	Anim.-
	name	duration	itm-bn.	delay	
	anim-	anim-	anim-	anim-	;
	iteration- count	direction	play-state.		

# How to implement :-

(i). using from and to →

@ keyframes (Animation-name) {  
identifiersfrom {  
    // CSS code } startto {  
    // CSS code } end.

using percentage % :-

@ keyframes (Animation-name) {  
identifiersstart {  
    0% {  
        // CSS code  
    }middle {  
    50% {  
        // CSS code  
    }end {  
    100% {  
        // CSS code  
    }

Examples :-

// Boiler plate

\* {

    background-size: border-box;  
    margin: 0;  
    padding: 0;} body  
body {    width: 100vw;  
    height: 100vh;  
    display: flex;  
    align-items: center;  
    justify-content: center;// parent  
· parent {    width: 100px;  
    height: 60px;  
    background-color: green;  
    border: 3px solid black;  
    position: relative;} child  
· child {    width: 150px;  
    height: 150px;  
    background-color: violet;

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animation-name: box;  
animation-duration: 3s;  
animation-timing-function: ease-in-out;  
animation-delay: 1s;  
 1) - iteration-count: infinite;  
 2) - direction: alternate;  
position: absolute;

@ keyframes box {

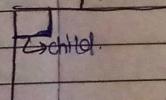
0% {

left: 0px;  
top: 0px;

25% {

left: calc(100% - 150px);

top: 0px;

outputs:

50% {

left: calc(100% - 150px);  
top: calc(100% - 150px);

75% {

left: calc(100% - 150px);  
top: calc(100% - 150px);

100% {

left: 0px;  
top: 0px;

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Example-2 :-

1) child

2) child {

animation: box 3s ease-in-out 1s infinite running;

animation-fill-mode: backwards;

position: absolute;

left: 0px;

top: 0px;

@ keyframes box {

from {

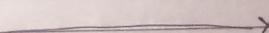
left: -10px;  
top: -10px;  
bg-color: blue;

}

to {

left: calc(100% - 150px);  
top: 0px; // rotate: 36deg;  
bg-color: green;

}



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(16). CSS units:-

yahan par do types ke units hote hain.

(1). Absolute units / fixed units →

(1). pixel →

- logical pixel: jo screen parne wala hota hain and usme jo pixels hote hain usko logical pixel karte hain and ye roughly sabhi screens ke same hi hote hain.

- physical pixel → actual hardware pixels hote hain.

- $1 \text{ pixel} = \frac{1}{96} \text{ inch}$ .

(2). 1pc (picas) →

- $1pc = 12px$

(3). pt (points) →

- $1pt = 1.33 \text{ pixels}$

- $12pt = 1pc = 12 \text{ pixels}$

(4). inch

(5). cm

(6). mm.

(2). Relative units →

(1). percentage (%) :

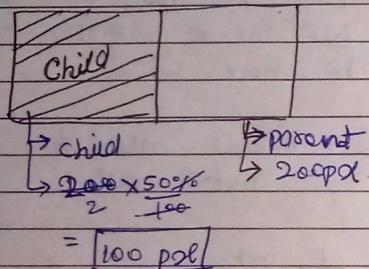
- ye parent se relative hota hai.

eg:-

```
<div class="parent">
  <div class="child"></div>
</div>
```

.parent {  
width: 200px;  
}  
  
.child {  
width: 50%;  
}

output:-



sirf font-size ke liye hi test kiya  
hai rem , em ko parent and root  
element ke relative.

parent container body ka child hoga  
parent me 50% likha means body ka  
50% parent ka mil jayega width.

(2). em :-

- ye v apne parent ke hi relative hota hai.

eg:-

The diagram shows a large rectangular container labeled "parent". Inside it, there is a smaller rectangular box labeled "child". An arrow points from the word "parent" to the container, and another arrow points from the word "child" to the box. Above the container, the text "Font-size: 12px" is written. Below the container, the text "4em (4x12px = 48px)" is written, followed by "Font-size".

Yahan v parent ka parent body hoga jiski by spiral de baat 100% hata hua font-size.

A sirf font size ke liye hi hota hai.

(3). root :-

- ye root element ko relative mein te hai.

eg:- html :-

font-size : 16px (by default) / 1px  
ham change u kar  
sakte hain).

div :-

Font-size = 3rem (3x16=48px)  
(font-size)

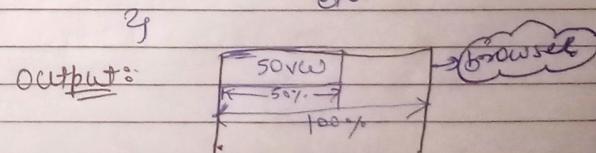
div :-

(4). vw (viewport height) :-

- browser ka jo visible area hota hai uska width.

eg:- div :-

width : 50vw (50% of viewport width)  
20vw (20% of viewport width)  
etc.



(5). vh (viewport height) →

- browser ka jo visible area hota hai uska height.

eg:- Same like vw.

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