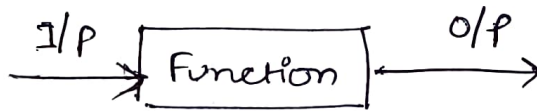# Animations In CSS

✓ CSS Style 1 to CSS Style 2
gradual change b/w them is
called Animations.

Functions in CSS :-

piece of code where we get output
when we give Input to it

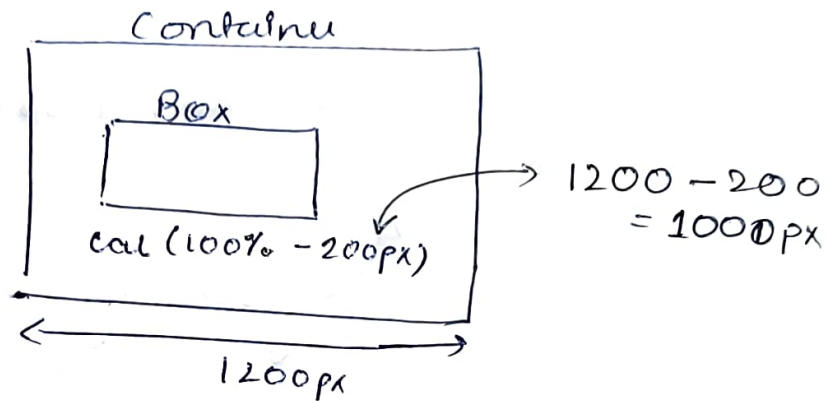eg:- rgb ( )
repeat ( ) ← i/p parameters
        ↑
        name

Scale(), translate(), gradiant
rgba(), url(), minmax() etc etc.

Now; :-

Math functions in CSS :-

① **calc ()** (for width)

↖ To solve expression (+, -, *, / etc)
& use the value

Container

Box

$cal (100\% - 200px)$

→ 1200 - 200
= 1000px

1200px

$cal \ (\ parentvalue \ expression \ value\ )$
→ $cal \ (\ 100\% \ \ - \ \ 200px\ )$

② **min (-,-)** (for width)

③ **max (-,-)** (for width)

④ **minmax (_,_)** provides range b/w
⟋ ⟋ min & maximum
min to max

Variables in CSS :-

when you have a long block of code (layout)
& you want to add styles, but when
you want to change style then from
variables you can change all value from
single place.

✓ variables works only inside the
   Blocks. when declared in locally.

✓ when variable is declared in the
   : root 🔵 then ~~also~~ it will work

   : root {

        -- dark-red: #981a2C;
      }

              ↖
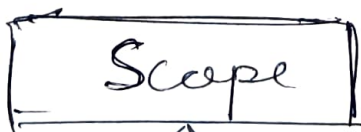   globally defined variable
                can be used anywhere.

but.

 • container {

        -- dark-red: #981a2C;
      }
                      ↑
                      ↖
                       local variable
                       only be used
                       within blocks.

```
┌─────────────┐
│    Scope    │
└─────────────┘
```
        ╱   ╲
  Global   Local
  variable   variable
     ↑   ↑
  in root   in Specific
  element   element

✓ Now.

Find diff b/w

```
: root {


    }
```

&

```
* {


    }
```

Animations :-

Transitions in CSS:-

1) Transition Timing (duration)

2) Transition function

3) Transition Delay (time after which transition occurs)

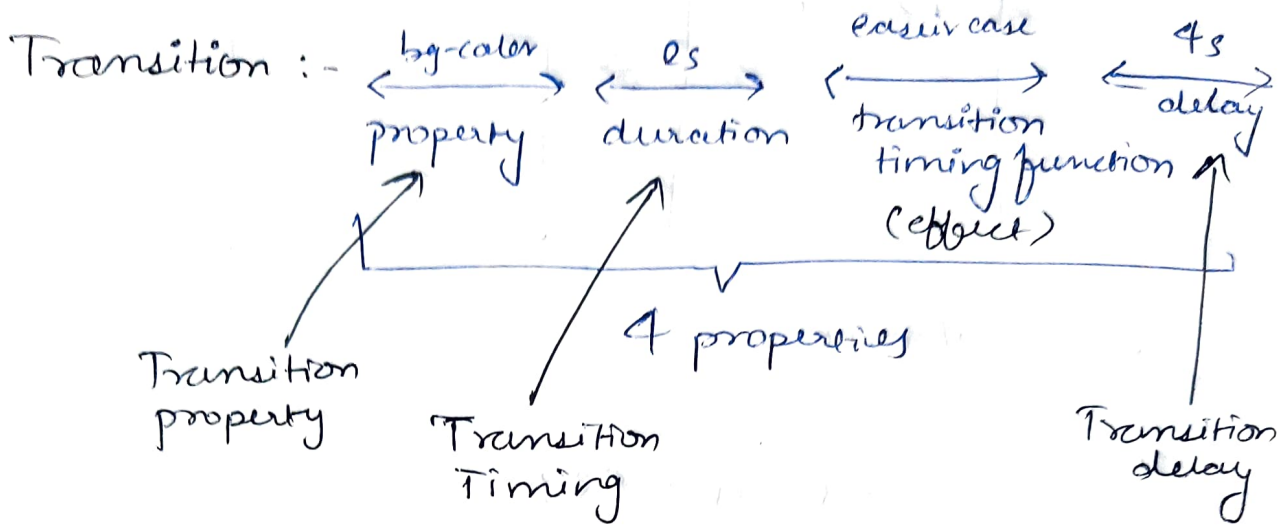4) Transition property, (in which property we apply transition)

we can animate our objects using two properties.

Transition property ✓

Animations & Key frames ✓

① **Transition property :-**
Transition shorthand property :-

Transition :- $\xleftarrow{\text{bg-color}}$ $\xleftarrow{\text{0s}}$ $\xleftarrow{\text{easier case}}$ $\xleftarrow{\text{4s}}$
        property   duration   transition   delay
                                timing function
                                (effect)

                    ↘ 4 properties ↙

Transition   Transition   Transition
property   Timing   delay

② **Animation property :- & Keyframes :-**

give properties inside the class you
    want to have animation
Then to run animation
        @ keyframes Name {

        }

Properties :-

animation - name
animation - duration
animation - iteration - count
animation - timing - function
animation - delay
animation - direction
animation - fill mode

⎤
⎥ we write
⎥ these
⎥ properties
⎥ inside
⎥ the class
⎥ css where
⎥ we want
⎥ animation
⎦ to run.