Transition in CSS

Overview

CSS transitions are added to change the element gradually with the time specified from one style to another. Similar work can also be done using JavaScript.
Transition **works on hover.** Generally, the transition is used with transform.

Properties of transition :

- **transition-property** : CSS property on which transition is to be applied.
- **transition-duration :** Time Duration for how long should the transition take.
- **transition-delay :** The delay time, i.e., the transition starts after this time.
- **transition-timing-function :** The type of transition function.

NOTE : To create a transition effect, transition duration and transition are mandatory to mention else, there will be no transition effect.

Example :	A div of 100px * 100px will get 200px*100px on hover within 3 seconds
HTML :	<div> </div>
CSS :	div{
	height: 100px;
	width: 100px;
	border:2px solid black ;
	transition-property: height ;
	transition-duration: 3s;
	}
	div : hover{
	height: 200px;
	}

Before Hover :	**After Hover :**

Transition on multiple properties

To apply transitions on multiple properties, separate the properties with a comma and specify the change in the hover section.

Editing the above example where width also becomes 200px.
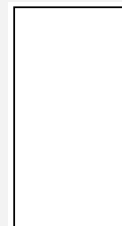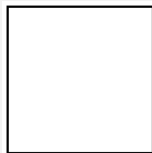
```
CSS :       div{
                    height: 100px;
                    width: 100px;
                    border:2px solid black ;
                    transition-property: height , width ;
                    transition-duration: 3s;
            }

            div : hover{
                    height: 200px;
                    width : 200px;
            }
```
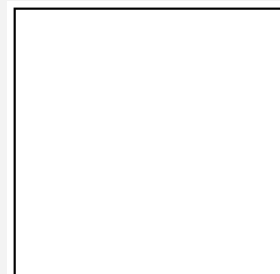
Before Hover :	After Hover :

transition delay

The transition-delay property specifies a delay (in seconds) for the transition effect.

```
Example :   Transition will start effecting 2 second delay
CSS :       div{
                    transition-property: height , width ;
                    transition-duration: 3s;
                    transition-delay : 2s ;
            }
```

transition timing function

The transition-timing-function property specifies the speed curve of the transition effect and the type of transition for effect.

- **ease** : Transition effect with a slow start, then fast, then end slowly (**Default**)
- **linear** : Transition effect with the same speed from start to end
- **ease-in** : Transition effect with a slow start
- **ease-out** : Transition effect with a slow end
- **ease-in-out** : Transition effect with a slow start and end
- **cubic-bezier(n,n,n,n)** : Defines own values in a cubic-bezier function

CSS :   div{

                    transition-property : height , width ;

                    transition-duration : 3s ;

                    transition-timing-function: ease-in-out;

                }

Transition shorthand

All the transition features could also be written in a single CSS line.

Example :

```
transition :  height   3s   ease-in-out   2s ;
```

property   duration   function   delay