

Transition transition effect in CSS

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Transition works by changing the attribute value smoothly from one value to another in a certain time period. Commonly used parameters:

1. **transition-delay:** the time interval for each transition effect.
2. **transition-duration:** the duration of the transition.
3. **transition-property:** attribute to convert.
4. **transition-timing-function:** conversion speed occurs.

How to use Transition in CSS

To create a Transition transition effect, you must specify **at least two things** :

1. CSS properties want to add effects
2. Duration of conversion (duration).

Note: If the duration is not specified, the conversion will not be smooth and smooth because the default value is 0.

Change the value of an attribute

Example: Element

purple 100px * 100px, we specify the Transition effect for width attributes, with a duration of 2 seconds:

```
div {
  width: 100px;
  height: 100px;
  background: purple;
  -webkit-transition: width 2s; /* Safari */
  transition: width 2s;
}
```

The transition effect will take place when the width attribute is changed in value.

```
div:hover {
  width: 300px;
}
```



Full code:

Transition properties

Hover over the element to see the transition effect:

Note : When the cursor moves away from the element, it will gradually change back to the original type.

Change the value of multiple attributes

Example: Add transition effects for both width and height attributes, with a duration of 2 seconds for width and 4 seconds for height.

```
div {  
  -webkit-transition: width 2s, height 4s; /* Safari */  
  transition: width 2s, height 4s;  
}
```



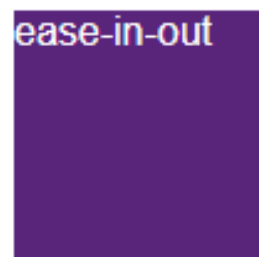
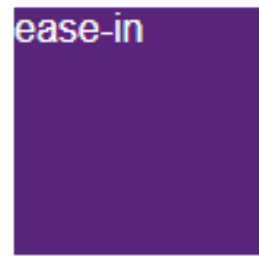
Conversion speed

The **transition-timing-function** attribute is used to determine the rate of change when converting.

The values available are as follows:

1. **ease** : create transition effect at the beginning, then slowly and quickly and slowly end slowly (default value).
2. **linear**: create transition effect from start to finish at the same speed.
3. **ease-in**: create a slow transition effect at the start.
4. **ease-out**: create a slow transition effect at the end.
5. **ease-in-out**: create a slow transition effect at the beginning and end.

```
#div1 {transition-timing-function: linear;}  
#div2 {transition-timing-function: ease;}  
#div3 {transition-timing-function: ease-in;}  
#div4 {transition-timing-function: ease-out;}  
#div5 {transition-timing-function: ease-in-out;}
```



Run the following code yourself to see the difference:

linear

ease

ease-in

ease-out

ease-in-out

Delay of Transition effect

The transition-delay attribute is used to determine the delay between the time a property changes and when the transition actually starts.

Example : Delay of 1 second before starting conversion.

```
div {  
  -webkit-transition-delay: 1s; /* Safari */  
  transition-delay: 1s;  
}
```



When dragging the mouse, the effect does not happen immediately but will be delayed 1s is the time that we set for it.

Full code:

The transition-delay attribute

Hover over the element to see the transition effect:

Combine Transition with Transform

Transform Quanimang learned in the previous lesson, go to the 2D Transform review [here](#) and 3D Transform [here](#).

Combining Transition with Transform together will create extremely beautiful transition effect.

```
div {  
  -webkit-transition: width 2s, height 2s, -webkit-transform 2s; /* Safari */  
  transition: width 2s, height 2s, transform 2s;  
}
```



Transition + Transform

The same effects at the beginning of the lesson also use a combination of Transition and Transform. You add some properties to change the color, style, font size . to your liking. The code below for your reference.

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Previous lesson: 3D Transform in CSS

Next lesson: Animation animation effect in CSS

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