

Lesson:

Transition



Topics Covered

- What is Transition?
- Transition Properties
- Examples

What is Transition?

CSS transitions enable you to control the speed of animation as you modify CSS attributes.

CSS Transition consists of,

- When animation will trigger
- When animation will start (delay)
- Duration of transition
- How will transitions run?

Transition Properties

CSS transitions allow you to change the property values of an element smoothly over a specified duration of time.

Here are the main CSS transition properties,

transition-property: Specifies which properties will be transitioned. You can specify a comma-separated list of properties, or use the value **all** to transition all properties.

```
transition-property: none;  
transition-property: color;  
transition-property: width;  
transition-property: all;
```

transition-duration: specifies the duration of the transition in seconds or milliseconds.

```
transition-duration: 6s;  
transition-duration: 120ms;
```

transition-timing-function: specifies the timing function used for the transition. There are several predefined timing functions, such as **ease-in**, **ease-out**, **ease-in-out**, and **linear**.

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

transition-delay: specifies the delay before the transition starts in seconds or milliseconds.

```
transition-delay: 3s;  
transition-delay: 3000ms;
```

Transition Shorthand

We can define transitions, in one line using the below syntax.

```
transition: property_name duration easing_function delay
```

Examples

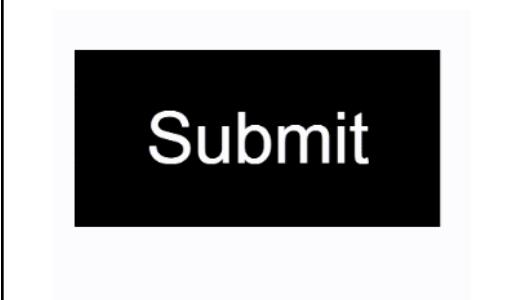
Let's try to understand transition using examples,

Example 1: Transition margin-top of button on hover.

```
<button>Submit</button>
```

```
button {  
    margin-top: 0px;  
    transition: margin-top 0.5s ease-in-out;  
    padding: 10px 15px;  
    background-color: black;  
    color: white;  
    border: none;  
    font-size: 15px;  
}  
  
button:hover {  
    margin-top: 5px;  
}
```

Browser Output



Example 2: Transition background color of links on hover.

```
<nav>
  <a href="#">Home</a>
  <a href="#">About</a>
  <a href="#">Pricing</a>
  <a href="#">Events</a>
</nav>

nav {
  display: flex;
  gap: 0.5rem;
}

a {
  flex: 1;
  background-color: #333;
  color: #fff;
  border: 1px solid;
  padding: 0.5rem;
  text-align: center;
  text-decoration: none;
  transition: all 0.5s ease-out;
}

a:hover, a:focus {
  background-color: #fff;
  color: #445ed1;
}
```

Browser Output



Example 3: Transition on changing width of circle.

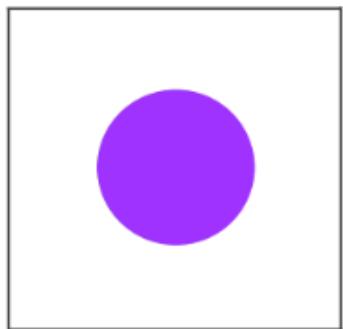
```
<div class="elem"></div>

.elem {
  background: blueviolet;
  width: 150px;
  height: 150px;
  transition: all 500ms ease-in-out;
  border-radius: 75px;
  margin-left: 100px;
  margin-top: 100px;
}

.elem:hover {
  transform: scale(2);
```

Browser Output

Initial:



On hover:

