

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 consist 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 below syntax.

```
transition: property_name duration easing function delay
```

Examples

Lets try to understand transition using examples,

Example 1: Transition between links background colours.

```
<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-

[Home](#)
[About](#)
[Pricing](#)
[Events](#)

Example 2: Transition on changing width of circle.

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

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

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

Browser output-

