

Report Day: 3.3

Submitted By: Ayesha Abid

Submitted To: Mr. Ali Hyder Hidayat

Group: Frontend Development @ProSensia

Dated: 09/07/25

Learning Outcomes:

Transitions:

CSS transitions allow us to change property values smoothly, over a given duration.

Major Properties:

- transition
- transition-delay
- transition-duration
- transition-property
- transition-timing-function

What needed for transition to be added:

- the CSS property you want to add an effect to
- the duration of the effect

Speed Curve of the Transition:

- ease - specifies a transition effect with a slow start, then fast, then end slowly (this is default)
- linear - specifies a transition effect with the same speed from start to end
- ease-in - specifies a transition effect with a slow start
- ease-out - specifies a transition effect with a slow end
- ease-in-out - specifies a transition effect with a slow start and end
- cubic-bezier(n,n,n,n) - lets you define your own values in a cubic-bezier function

```

1  <!DOCTYPE html>
2  <html>
3  <head>
4  <style>
5  div {
6    width: 100px;
7    height: 100px;
8    background: red;
9    transition: width 2s, height 4s;
10 }
11
12 div:hover {
13   width: 300px;
14   height: 300px;
15 }
16 </style>
17 </head>
18 <body>
19
20 <h1>The transition Property</h1>
21
22 <p>Hover over the div element below, to see the transition effect:</p>
23
24 <div></div>
25
26 </body>
27 </html>
28

```

```

<!DOCTYPE html>
<html>
<head>
<style>
div {
  width: 100px;
  height: 100px;
  background: red;
  transition: width 2s, height 2s, transform 2s;
}
div:hover {
  width: 300px;
  height: 300px;
  transform: rotate(180deg);
}
</style>
</head>
<body>

<h1>Transition + Transform</h1>

```

Transition + Transform

Hover over the div element below:





Animations:

CSS allows animation of HTML elements without using JavaScript, and an animation lets an element gradually change from one style to another.

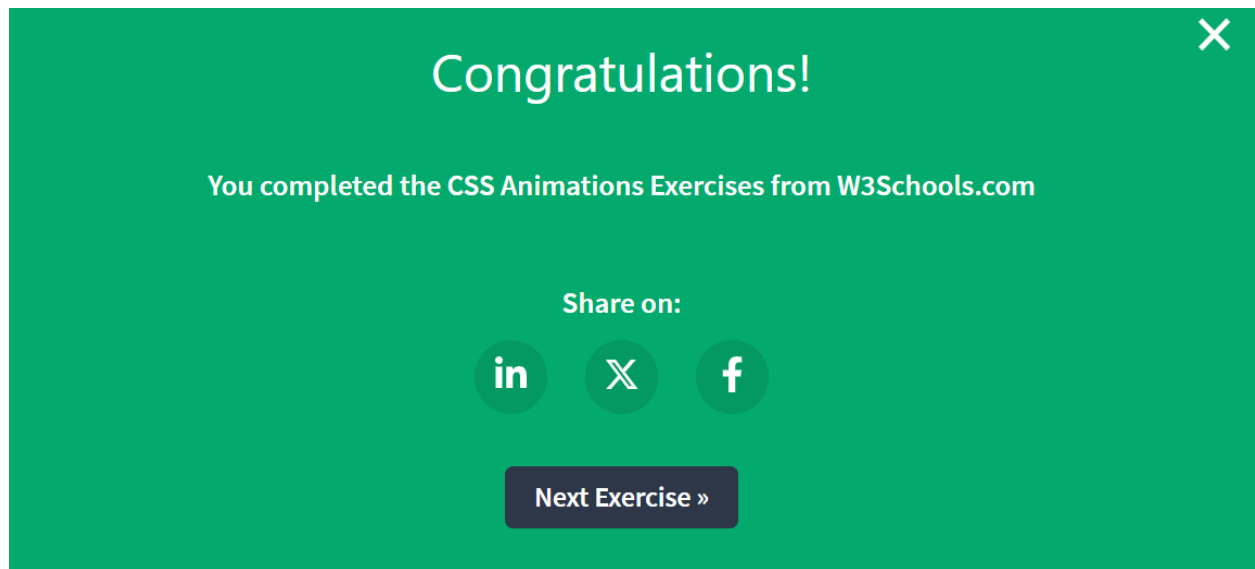
Properties:

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

Key Frames Rule:

When you specify CSS styles inside the @keyframes rule, the animation will gradually change from the current style to the new style at certain times.

```
@keyframes example {  
  from {background-color: red;}  
  to {background-color: yellow;}  
}
```



Conclusion:

CSS animations and transitions bring life to web elements by adding smooth visual effects and interactivity. **Transitions** allow elements to change property values over time, while **animations** offer more control with keyframes and looping.