CSS Transitions

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CSS Transitions

CSS transitions allows you to change property values smoothly, over a given duration.

Mouse over the element below to see a CSS transition effect:

CSS

In this chapter you will learn about the following properties:

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

Browser Support for Transitions

The numbers in the table specify the first browser version that fully supports the property.

Property					

transition	26.0	10.0	16.0	6.1	12.1
transition-delay	26.0	10.0	16.0	6.1	12.1
transition-duration	26.0	10.0	16.0	6.1	12.1
transition-property	26.0	10.0	16.0	6.1	12.1
transition-timing-function	26.0	10.0	16.0	6.1	12.1

How to Use CSS Transitions?

To create a transition effect, you must specify two things:

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

Note: If the duration part is not specified, the transition will have no effect, because the default value is 0.

The following example shows a 100px * 100px red element. The element has also specified a transition effect for the width property, with a duration of 2 seconds:

Example

```
div {
  width: 100px;
  height: 100px;
  background: red;
  transition: width 2s;
}
```

The transition effect will start when the specified CSS property (width) changes value.

Now, let us specify a new value for the width property when a user mouses over the element:

Example

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

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Notice that when the cursor mouses out of the element, it will gradually change back to its original style.

Change Several Property Values

The following example adds a transition effect for both the width and height property, with a duration of 2 seconds for the width and 4 seconds for the height:

Example

```
div {
  transition: width 2s, height 4s;
}
```

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Specify the Speed Curve of the Transition

The `transition-timing-function` property specifies the speed curve of the transition effect.

The transition-timing-function property can have the following values:

- `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

The following example shows some of the different speed curves that can be used:

Example

```
#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;}
```

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Delay the Transition Effect

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

The following example has a 1 second delay before starting:

Example

```
div {
  transition-delay: 1s;
}
```

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Transition + Transformation

The following example adds a transition effect to the transformation:

Example

```
div {
  transition: width 2s, height 2s, transform 2s;
}
```

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More Transition Examples

The CSS transition properties can be specified one by one, like this:

Example

```
div {
  transition-property: width;
  transition-duration: 2s;
  transition-timing-function: linear;
  transition-delay: 1s;
}
```

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or by using the shorthand property `transition`:

Example

```
div {
  transition: width 2s linear 1s;
}
```

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Test Yourself With Exercises

Exercise:

Add a 2 second transition effect for width changes of the element.

```
<style>
div {
  width: 100px;
  height: 100px;
  background: red;
            :         ;
}

div:hover {
  width: 300px;
}
</style>

<body>
  <div>This is a div</div>
</body>
```

Submit Answer »

Start the Exercise

CSS Transition Properties

The following table lists all the CSS transition properties:

Property	Description
transition	A shorthand property for setting the four transition properties into a single property
transition-delay	Specifies a delay (in seconds) for the transition effect
transition-duration	Specifies how many seconds or milliseconds a transition effect takes to complete
transition-property	Specifies the name of the CSS property the transition effect is for
transition-timing-function	Specifies the speed curve of the transition effect

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