

CSS3 Transitions

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CSS3 Transitions

CSS3 transitions allows you to change property values smoothly (from one value to another), over a given duration.

Example: Mouse over the element below to see a CSS3 transition effect:

CSS3

Browser Support for Transitions

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

Numbers followed by -webkit-, -moz-, or -o- specify the first version that worked with a prefix.

Property					
transition	26.0 4.0 -webkit-	10.0	16.0 4.0 -moz-	6.1 3.1 -webkit-	12.1 10.5 -o-
transition-delay	26.0 4.0 -webkit-	10.0	16.0 4.0 -moz-	6.1 3.1 -webkit-	12.1 10.5 -o-
transition-duration	26.0 4.0 -webkit-	10.0	16.0 4.0 -moz-	6.1 3.1 -webkit-	12.1 10.5 -o-
transition-property	26.0 4.0 -webkit-	10.0	16.0 4.0 -moz-	6.1 3.1 -webkit-	12.1 10.5 -o-
transition-timing-function	26.0 4.0 -webkit-	10.0	16.0 4.0 -moz-	6.1 3.1 -webkit-	12.1 10.5 -o-

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How to Use CSS3 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 <div> element. The <div> 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;  
  -webkit-transition: width 2s; /* Safari */  
  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 <div> 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.

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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 {  
  -webkit-transition: width 2s, height 4s; /* Safari */  
  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 the 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.

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Example

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

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Transition + Transformation

The following example also adds a transformation to the transition effect:

Example

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

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More Transition Examples

The CSS3 transition properties can be specified one by one, like this:

Example

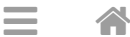
```
div {  
  transition-property: width;  
  transition-duration: 2s;  
  transition-timing-function: linear;  
  transition-delay: 1s;  
}
```

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or by using the shorthand property `transition` :

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

If with Exercises!



Exercise 2 »

Exercise 3 »

Exercise 4 »

Exercise 5 »



tion Properties

lists all the transition properties:

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

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