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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

Transition

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	10.0	26.0 4.0 - webkit-	16.0 4.0 -moz-	6.1 3.1 - webkit-	12.1 10.5 -o-

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

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

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

Try it yourself »

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

```css
div {
    -webkit-transition: width 2s, height 4s; /* Safari */
    transition: width 2s, height 4s;
}
```

Try it yourself »

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;}
```

Try it yourself »

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

Try it yourself »

Transition + Transformation

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

Example

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

Try it yourself »

More Transition Examples

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

Example

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

Try it yourself »

or by using the shorthand property transition:

Example

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

Try it yourself »

Test Yourself with Exercises!

Exercise 1 »   Exercise 2 »   Exercise 3 »   Exercise 4 »

Exercise 5 »

CSS3 Transition Properties

The following table lists all the 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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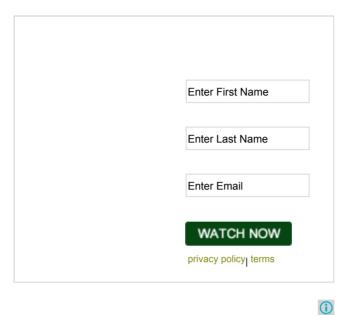HTML, CSS, JavaScript, PHP, jQuery, and XML Certifications

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