CSS3 transition-timing-function Property

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Example

A transition effect with the same speed from start to end:

```
div {
    -webkit-transition-timing-function: linear; /* Safari and Chrome */
    transition-timing-function: linear;
}
```

Try it yourself »

Definition and Usage

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

This property allows a transition effect to change speed over its duration.

Default value: ease

Inherited:	no	
Animatable:	no. Read about *animatable*	
Version:	CSS3	
JavaScript syntax:	*object*.style.transitionTimingFunction="linear"	Try it

Browser Support

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

that worked

Property					
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-

CSS Syntax

```
transition-timing-function: ease|linear|ease-in|ease-out|ease-in-out|cubic-bezier()|initial|inherit;
```

Property Values

Value	Description
ease	Default value. Specifies a transition effect with a slow start, then fast, then end slowly (equivalent to cubic-bezier(0.25,0.1,0.25,1))
linear	Specifies a transition effect with the same speed from start to end (equivalent to cubic-bezier(0,0,1,1))

ease-in	Specifies a transition effect with a slow start (equivalent to cubic-bezier(0.42,0,1,1))
ease-out	Specifies a transition effect with a slow end (equivalent to cubic-bezier(0,0,0.58,1))
ease-in-out	Specifies a transition effect with a slow start and end (equivalent to cubic-bezier(0.42,0,0.58,1))
cubic-bezier(*n*,*n*,*n*,*n*)	Define your own values in the cubic-bezier function. Possible values are numeric values from 0 to 1
initial	Sets this property to its default value. Read about *initial*
inherit	Inherits this property from its parent element. Read about *inherit*

Tip: Try the different values in the examples below to understand how it works!

More Examples

Example

To better understand the different function values: Here are five different div elements with five different values:

```
/* For Safari 3.1 to 6.0 */
#div1 {-webkit-transition-timing-function: linear;}
#div2 {-webkit-transition-timing-function: ease;}
#div3 {-webkit-transition-timing-function: ease-in;}
#div4 {-webkit-transition-timing-function: ease-out;}
#div5 {-webkit-transition-timing-function: ease-in-out;}

/* Standard syntax */
#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 »

Example

Same as the example above, but the speed curves are specified with the cubic-bezier function:

```
/* For Safari 3.1 to 6.0 */
#div1 {-webkit-transition-timing-function: cubic-bezier(0,0,1,1;}
#div2 {-webkit-transition-timing-function: cubic-bezier(0.25,0.1,0.25,1);}
#div3 {-webkit-transition-timing-function: cubic-bezier(0.42,0,1,1);}
#div4 {-webkit-transition-timing-function: cubic-bezier(0,0,0.58,1);}
#div5 {-webkit-transition-timing-function: cubic-bezier(0.42,0,0.58,1);}

/* Standard syntax */
#div1 {transition-timing-function: cubic-bezier(0,0,1,1;}
#div2 {transition-timing-function: cubic-bezier(0.25,0.1,0.25,1);}
#div3 {transition-timing-function: cubic-bezier(0.42,0,1,1);}
#div4 {transition-timing-function: cubic-bezier(0,0,0.58,1);}
#div5 {transition-timing-function: cubic-bezier(0.42,0,0.58,1);}
```

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