CSS Transitions

- description : CSS Transitions
- author :
- email : shlim@repia.com
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The source of this article

CSS Transitions

CSS Transitions

CSS transitions   .

.

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

How to Use CSS Transitions?

transition   ,   .

- CSS
- (duration)

Note: , transition   O   .

100px * 100px <div>   .
<div>   2   transition   .

Example

```
div {
  width: 100px;
```

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

transition   CSS   (   )   .
               <div>   .

Example

```
  <title>The transition Property</title>
  <style>
    div {
      width: 100px;
      height: 100px;
      background: red;
      transition: width 2s;
    }

    div:hover {
      width: 300px;
      /*                   2             100px    300px                . */
    }
  </style>
</head>

<body>

  <h1>The transition Property</h1>

  <p>Mouse over the div element below, to see the transtion effect:</p>
  <div></div>

  <p><b>Note:</b> This example does not work in Internet Explorer 9 and
earlier versions.</p>

</body>
```

,

Change Several Property Values

                               2   4
                      transition   .

Example

```
  <style>
    div {
      width: 100px;
      height: 100px;
      background: crimson;
      transition: width 2s, height 4s;
      /*        :    2  ,    4  */
    }

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

<body>

  <h1>The transition Property</h1>

  <p>Hover over the div element below, to see the transition effect:</p>

  <div></div>

  <p><b>Note:</b> This example does not work in Internet Explorer 9 and
earlier version.</p>

</body>
```

Specify the Speed Curve of the Transition

`transition-timing-function`   transition   (speed curve)   .

transition-timing-function   .

- `ease` - slow start, then fast, then end slowly   transition   . (   )
- `linear` -   transition   .
- `ease-in` - slow start   transition   .
- `ease-out` - slow end   transition   .
- `ease-in-out` - slow start   slow-end   transition   .
- `cubic-bezier(n,n,n,n)` - 3   (cubic-bezier function)
           .

.

Example

```
<title>The transition-timing-function Property</title>
<style>
  div {
    width: 100px;
    height: 100px;
    background: crimson;
    transition: width 2s;
  }

  #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;}

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

<body>

  <h1>The transition-timing-function Property</h1>

  <p>Hover over the div element below, to see the different speed
curves:</p>

  <div id="div1">linear</div><br>
  <div id="div2">ease</div><br>
  <div id="div3">ease-in</div><br>
  <div id="div4">ease-out</div><br>
  <div id="div5">ease-in-out</div><br>

  <p><b>Note:</b> This example does not work in Internet Explorer 9 and
earlier versions.</p>

</body>
```

Delay the Transition Effect

transition-delay   transition   (delay)   .

1   .

Example

```
  <style>
    div {
      width: 100px;
      height: 100px;
      background: crimson;
      transition: width 3s;
      transition-delay: 1s;
    }

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

<body>

  <h1>The transition-delay Property</h1>

  <p>Hover over the div element below, to see the transition effect:</p>

  <div></div>

  <p><b>Note:</b> The transition effect has a 1 second delay before
starting.</p>

  <p><b>Note:</b> This example does not work in Internet Explorer 9 and
earlier versions</p>

</body>
```

Transition+ Transformation

transformation(   )   transition   .

Example

```
  <title>Transition + Transform</title>
  <style>
    div {
      width: 100px;
      height: 100px;
      background: brown;
```

```css
    transition: width 2s, height 2s, transform 2s;
  }

  div:hover {
    width: 300px;
    height: 300px;
    transform: rotate(180deg);
  }
</style>
</head>

<body>

  <h1>Transition + Transform</h1>

  <p>Hover over the div element below:</p>

  <div></div>

  <p><b>Note:</b> This example does not work in Internet Explorer 9 and
earlier versions.</p>

</body>
```

More Transition Examples

CSS transition   1   .

```html
  <title>The transition Properties Specified One by One</title>
  <style>
    div {
      width: 100px;
      height: 100px;
      background: brown;
      transition-property: width;
      transition-duration: 2s;
      transition-timing-function: linear;
      transition-delay: 1s;
    }

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

<body>
```

```
  <h1>The transition Properties Specified One by One</h1>

  <p>Hover over the div element below, to see the transition effect:</p>

  <div></div>

  <p><b>Note:</b> The transition effect has a 1 second delay before
starting.</p>
  <p><b>Note:</b> This example does not work in Internet Explorer 9 and
earlier versions.</p>

</body>
```

transition   .

```
  <title>Using The transition Shorthand Property</title>
  <style>
    div {
      width: 100px;
      height: 100px;
      background: brown;
      transition: width 2s linear 1s;
    }

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

<body>

  <h1>Using The transition Shorthand Property</h1>

  <p>Hover over the div element below, to see the transition effect:</p>

  <div></div>

  <p><b>Note:</b> The transition effect has a 1 second delay before
starting.</p>

  <p><b>Note:</b> This example does not work in Internet Explorer 9 and
earlier versions.</p>

</body>
```

CSS Transition Properties

CSS transition   .

Property	Description
transition	4 transition
transition-delay	transition ( ) .
transition-duration	transition .
transition-property	transition CSS .
transition-timing-function	transition (speed curve) .

,, CSS, Transitions