

CSS3 - 2D TRANSFORMS

http://www.tutorialspoint.com/css/css3_2d_transform.htm

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2D transforms are used to re-change the element structure as translate, rotate, scale, and skew

The following table has contained common values which are used in 2D transforms

Values	Description
<code>matrix(<i>n, n, n, n, n, n</i>)</code>	Used to defines matrix transforms with six values
<code>translate(<i>x, y</i>)</code>	Used to transforms the element along with x-axis and y-axis
<code>translateX(<i>n</i>)</code>	Used to transforms the element along with x-axis
<code>translateY(<i>n</i>)</code>	Used to transforms the element along with y-axis
<code>scale(<i>x, y</i>)</code>	Used to change the width and height of element
<code>scaleX(<i>n</i>)</code>	Used to change the width of element
<code>scaleY(<i>n</i>)</code>	Used to change the height of element
<code>rotate(<i>angle</i>)</code>	Used to rotate the element based on an angle
<code>skewX(<i>angle</i>)</code>	Used to defines skew transforms along with x axis
<code>skewY(<i>angle</i>)</code>	Used to defines skew transforms along with y axis

The following examples are shown the sample of all above properties

Rotate 20 degrees

Box rotation with 20 degrees angle as shown below

```
<html>
  <head>

    <style>
      div {
        width: 300px;
        height: 100px;
        background-color: pink;
        border: 1px solid black;
      }
      div#myDiv {
        /* IE 9 */
        -ms-transform: rotate(20deg);

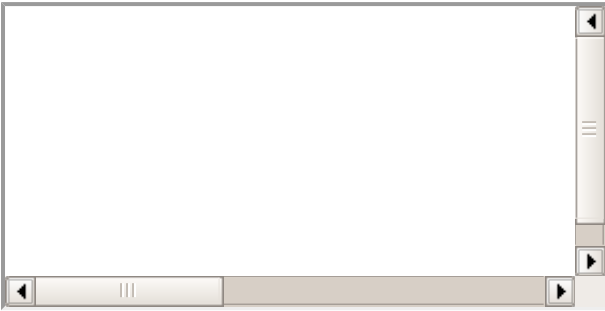
        /* Safari */
        -webkit-transform: rotate(20deg);

        /* Standard syntax */
        transform: rotate(20deg);
      }
    </style>

  </head>
  <body>
    <div>
      Tutorials point.com.
    </div>
```

```
<div >
  Tutorials point.com
</div>
</body>
</html>
```

It will produce the following result –



Rotate -20 degrees

Box rotation with -20 degrees angle as shown below

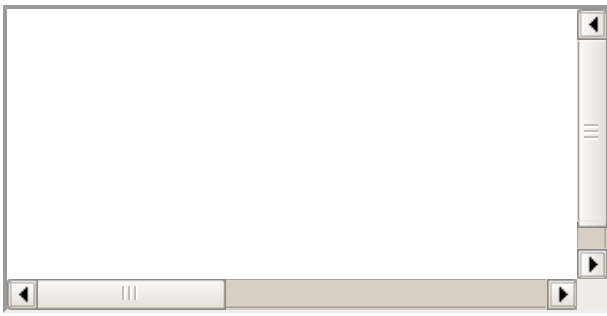
```
<html>
<head>
  <style>
    div {
      width: 300px;
      height: 100px;
      background-color: pink;
      border: 1px solid black;
    }
    div#myDiv {
      /* IE 9 */
      -ms-transform: rotate(-20deg);

      /* Safari */
      -webkit-transform: rotate(-20deg);

      /* Standard syntax */
      transform: rotate(-20deg);
    }
  </style>
</head>
<body>
  <div>
    Tutorials point.com.
  </div>

  <div >
    Tutorials point.com
  </div>
</body>
</html>
```

It will produce the following result –



Skew X axis

Box rotation with skew x-axis as shown below

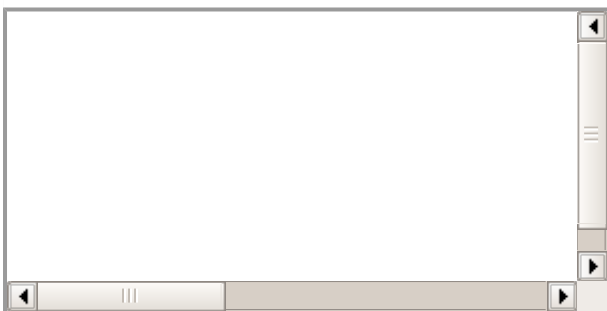
```
<html>
  <head>
    <style>
      div {
        width: 300px;
        height: 100px;
        background-color: pink;
        border: 1px solid black;
      }
      div#skewDiv {
        /* IE 9 */
        -ms-transform: skewX(20deg);

        /* Safari */
        -webkit-transform: skewX(20deg);

        /* Standard syntax */
        transform: skewX(20deg);
      }
    </style>
  </head>
  <body>
    <div>
      Tutorials point.com.
    </div>

    <div >
      Tutorials point.com
    </div>
  </body>
</html>
```

It will produce the following result –



Skew Y axis

Box rotation with skew y-axis as shown below

```
<html>
```

```

<head>

<style>
  div {
    width: 300px;
    height: 100px;
    background-color: pink;
    border: 1px solid black;
  }
  div#skewDiv {
    /* IE 9 */
    -ms-transform: skewY(20deg);

    /* Safari */
    -webkit-transform: skewY(20deg);

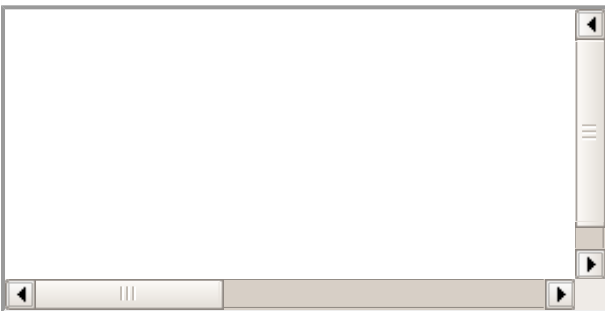
    /* Standard syntax */
    transform: skewY(20deg);
  }
</style>

</head>
<body>
  <div>
    Tutorials point.com.
  </div>

  <div >
    Tutorials point.com
  </div>
</body>
</html>

```

It will produce the following result –



Matrix transform

Box rotation with Matrix transforms as shown below

```

<html>
<head>

<style>
  div {
    width: 300px;
    height: 100px;
    background-color: pink;
    border: 1px solid black;
  }
  div#myDiv1 {
    /* IE 9 */
    -ms-transform: matrix(1, -0.3, 0, 1, 0, 0);

    /* Safari */
    -webkit-transform: matrix(1, -0.3, 0, 1, 0, 0);

    /* Standard syntax */

```

```

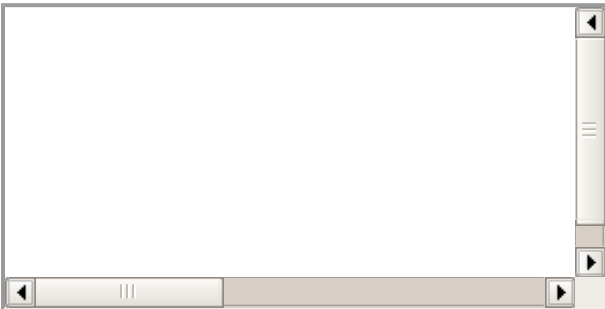
        transform: matrix(1, -0.3, 0, 1, 0, 0);
    }
</style>

</head>
<body>
    <div>
        Tutorials point.com.
    </div>

    <div >
        Tutorials point.com
    </div>
</body>
</html>

```

It will produce the following result –



Matrix transforms with another direction

```

<html>
<head>
    <style>
        div {
            width: 300px;
            height: 100px;
            background-color: pink;
            border: 1px solid black;
        }
        div#myDiv2 {
            /* IE 9 */
            -ms-transform: matrix(1, 0, 0.5, 1, 150, 0);

            /* Safari */
            -webkit-transform: matrix(1, 0, 0.5, 1, 150, 0);

            /* Standard syntax */
            transform: matrix(1, 0, 0.5, 1, 150, 0);
        }
    </style>
</head>
<body>
    <div>
        Tutorials point.com.
    </div>

    <div >
        Tutorials point.com
    </div>
</body>
</html>

```

It will produce the following result –

