CSS3 - 2d Transforms

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** |
| matrix(n,n,n,n,n,n) | Used to defines matrix transforms with six values |
| translate(x,y) | Used to transforms the element along with x-axis and y-axis |
| translateX(n) | Used to transforms the element along with x-axis |
| translateY(n) | Used to transforms the element along with y-axis |
| scale(x,y) | Used to change the width and height of element |
| scaleX(n) | Used to change the width of element |
| scaleY(n) | Used to change the height of element |
| rotate(angle) | Used to rotate the element based on an angle |
| skewX(angle) | Used to defines skew transforms along with x axis |
| skewY(angle) | 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 id="myDiv">

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 id="myDiv">

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 id="skewDiv">

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 id="skewDiv">

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>

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</div>

<div id="myDiv1">

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>

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</div>

<div id="myDiv2">

Tutorials point.com

</div>

</body>

</html>

It will produce the following result −