

CSS3 3D Transforms

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CSS3 3D Transforms

CSS3 allows you to format your elements using 3D transformations.

Mouse over the elements below to see the difference between a 2D and a 3D transformation:

2D
rotate

3D
rotate

Browser Support for 3D Transforms

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					
transform	36.0 12.0 - webkit-	10.0	16.0 10.0 -moz-	9.0 4.0 -webkit-	23.0 15.0 - webkit-
transform-origin (three-value syntax)	36.0 12.0 - webkit-	10.0	16.0 10.0 -moz-	9.0 4.0 -webkit-	23.0 15.0 - webkit-
transform-style	36.0 12.0 - webkit-	11.0	16.0 10.0 -moz-	9.0 4.0 -webkit-	23.0 15.0 - webkit-
perspective	36.0 12.0 - webkit-	10.0	16.0 10.0 -moz-	9.0 4.0 -webkit-	23.0 15.0 - webkit-

perspective-origin	36.0 12.0 - webkit-	10.0	16.0 10.0 -moz-	9.0 4.0 -webkit-	23.0 15.0 - webkit-
backface-visibility	36.0 12.0 - webkit-	10.0	16.0 10.0 -moz-	9.0 4.0 -webkit-	23.0 15.0 - webkit-

CSS3 3D Transforms

In this chapter you will learn about the following 3D transformation methods:

- `rotateX()`
- `rotateY()`
- `rotateZ()`

The rotateX() Method



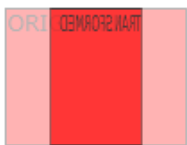
The `rotateX()` method rotates an element around its X-axis at a given degree:

Example

```
div {  
  -webkit-transform: rotateX(150deg); /* Safari */  
  transform: rotateX(150deg);  
}
```

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The rotateY() Method



The `rotateY()` method rotates an element around its Y-axis at a given degree:

Example

```
div {  
  -webkit-transform: rotateY(130deg); /* Safari */  
  transform: rotateY(130deg);  
}
```

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The rotateZ() Method

The `rotateZ()` method rotates an element around its Z-axis at a given degree:

Example

```
div {  
  -webkit-transform: rotateZ(90deg); /* Safari */  
  transform: rotateZ(90deg);  
}
```

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Test Yourself with Exercises!

[Exercise 1 »](#)

[Exercise 2 »](#)

[Exercise 3 »](#)

CSS3 Transform Properties

The following table lists all the 3D transform properties:

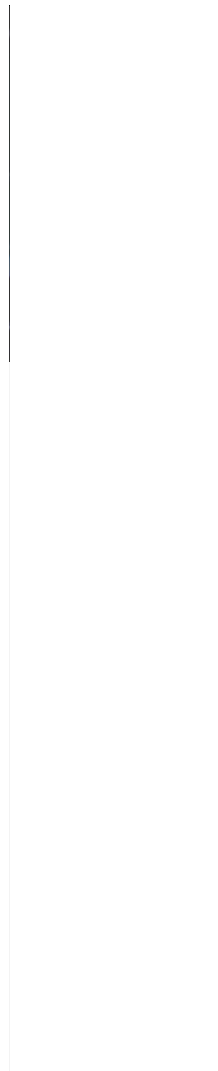
Property	Description
<u>transform</u>	Applies a 2D or 3D transformation to an element

<u>transform-origin</u>	Allows you to change the position on transformed elements
<u>transform-style</u>	Specifies how nested elements are rendered in 3D space
<u>perspective</u>	Specifies the perspective on how 3D elements are viewed
<u>perspective-origin</u>	Specifies the bottom position of 3D elements
<u>backface-visibility</u>	Defines whether or not an element should be visible when not facing the screen

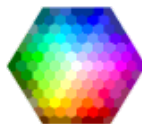
3D Transform Methods

Function	Description
<code>matrix3d</code> (<i>n,n,n,n,n,n,n,n,n,n,n,n,n,n,n,n</i>)	Defines a 3D transformation, using a 4x4 matrix of 16 values
<code>translate3d(x,y,z)</code>	Defines a 3D translation
<code>translateX(x)</code>	Defines a 3D translation, using only the value for the X-axis
<code>translateY(y)</code>	Defines a 3D translation, using only the value for the Y-axis
<code>translateZ(z)</code>	Defines a 3D translation, using only the value for the Z-axis
<code>scale3d(x,y,z)</code>	Defines a 3D scale transformation
<code>scaleX(x)</code>	Defines a 3D scale transformation by giving a value for the X-axis
<code>scaleY(y)</code>	Defines a 3D scale transformation by giving a value for the Y-axis
<code>scaleZ(z)</code>	Defines a 3D scale transformation by giving a value for the Z-axis
<code>rotate3d(x,y,z,angle)</code>	Defines a 3D rotation
<code>rotateX(angle)</code>	Defines a 3D rotation along the X-axis
<code>rotateY(angle)</code>	Defines a 3D rotation along the Y-axis
<code>rotateZ(angle)</code>	Defines a 3D rotation along the Z-axis
<code>perspective(n)</code>	Defines a perspective view for a 3D transformed element

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