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CSS 3D Transforms

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CSS 3D Transforms

CSS also supports 3D transformations.

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



In this chapter you will learn about the following CSS property:

- `transform`

Browser Support

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

Property					
transform	36.0	10.0	16.0	9.0	23.0

CSS 3D Transforms Methods

With the CSS `transform` property you can use the following 3D transformation methods:

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

The rotateX() Method



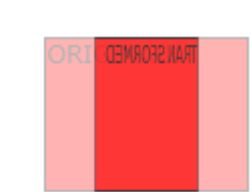
The `rotateX()` method rotates an element around its X-axis at a given degree:

Example

```
#myDiv {
  transform: rotateX(150deg);
}
```

[Try it Yourself »](#)

The rotateY() Method



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

Example

```
#myDiv {
  transform: rotateY(150deg);
}
```

[Try it Yourself »](#)

The rotateZ() Method

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

Example

```
#myDiv {
  transform: rotateZ(90deg);
}
```

[Try it Yourself »](#)

Test Yourself With Exercises

Exercise:

With the `transform` property, rotate the <div> element 150deg around its X-axis..

```
<style>
div {
  width: 100px;
  height: 100px;
  background-color: lightblue;
  border: 1px solid black;
  : ;
}
```

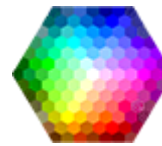
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<div>this is a div</div>

</body>

Submit Answer »

Start the Exercise

CSS Transform Properties

The following table lists all the 3D transform properties:

Property	Description
transform	Applies a 2D or 3D transformation to an element
transform-origin	Allows you to change the position on transformed elements
transform-style	Specifies how nested elements are rendered in 3D space
perspective	Specifies the perspective on how 3D elements are viewed
perspective-origin	Specifies the bottom position of 3D elements
backface-visibility	Defines whether or not an element should be visible when not facing the screen

CSS 3D Transform Methods

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

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