

Image Rollovers and 2D Transformations

Using HTML5 and CSS3

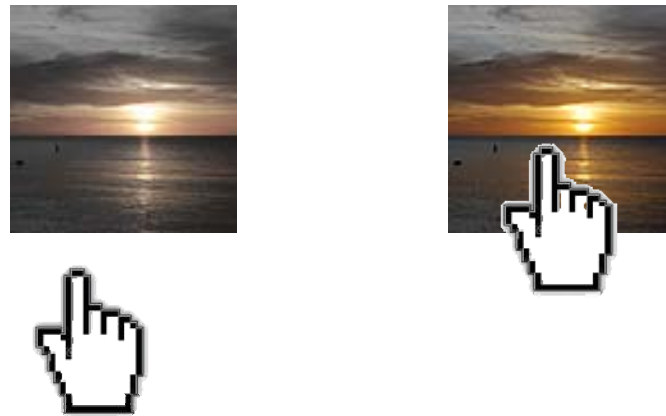
Rollovers

- Rollovers are the effects obtained when `a: hover` activates
- Initial state `a` has a background image
- Hover state `a: hover` has different background image
- When cursor rolls over the anchored element the `a: hover` background image is displayed:



Rollovers

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Transforms

- CSS3 has the capability to transform any element two dimensionally and three dimensionally
- 3D transforms still in development
- Transform syntax:

```
transform: scale(1.3) ;
```

transform property

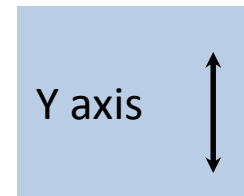
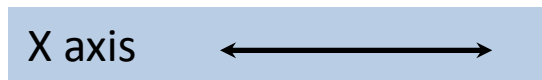
transform function

supported in all
modern browsers

Transforms

Transform Functions

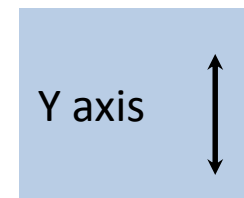
matrix	scaleX
translate	scaleY
translateX	rotate
translateY	skewX
scale	skewY



Transforms

Transform Functions

<code>matrix(1, -0.2, 0, 1 ,0, 0)</code>	<code>scaleX(1.3)</code>
<code>translate(12px, 14px)</code>	<code>scaleY(1.3)</code>
<code>translateX(12px)</code>	<code>rotate(10deg)</code>
<code>translateY(14px)</code>	<code>skewX(90deg)</code>
<code>scale(1.3)</code>	<code>skewY(60deg)</code>

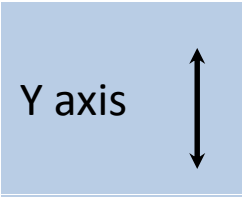


Transforms

Transform Functions

```
background: gold; width: 30em;  
-ms-transform: matrix(1, -0.2, 0, 1, 0, 0);  
-webkit-transform: matrix(1, -0.2, 0, 1, 0, 0);  
-o-transform: matrix(1, -0.2, 0, 1, 0, 0);  
-ms-transform: matrix(1, -0.2, 0, 1, 0, 0);  
transform: matrix(1, -0.2, 0, 1, 0, 0);
```

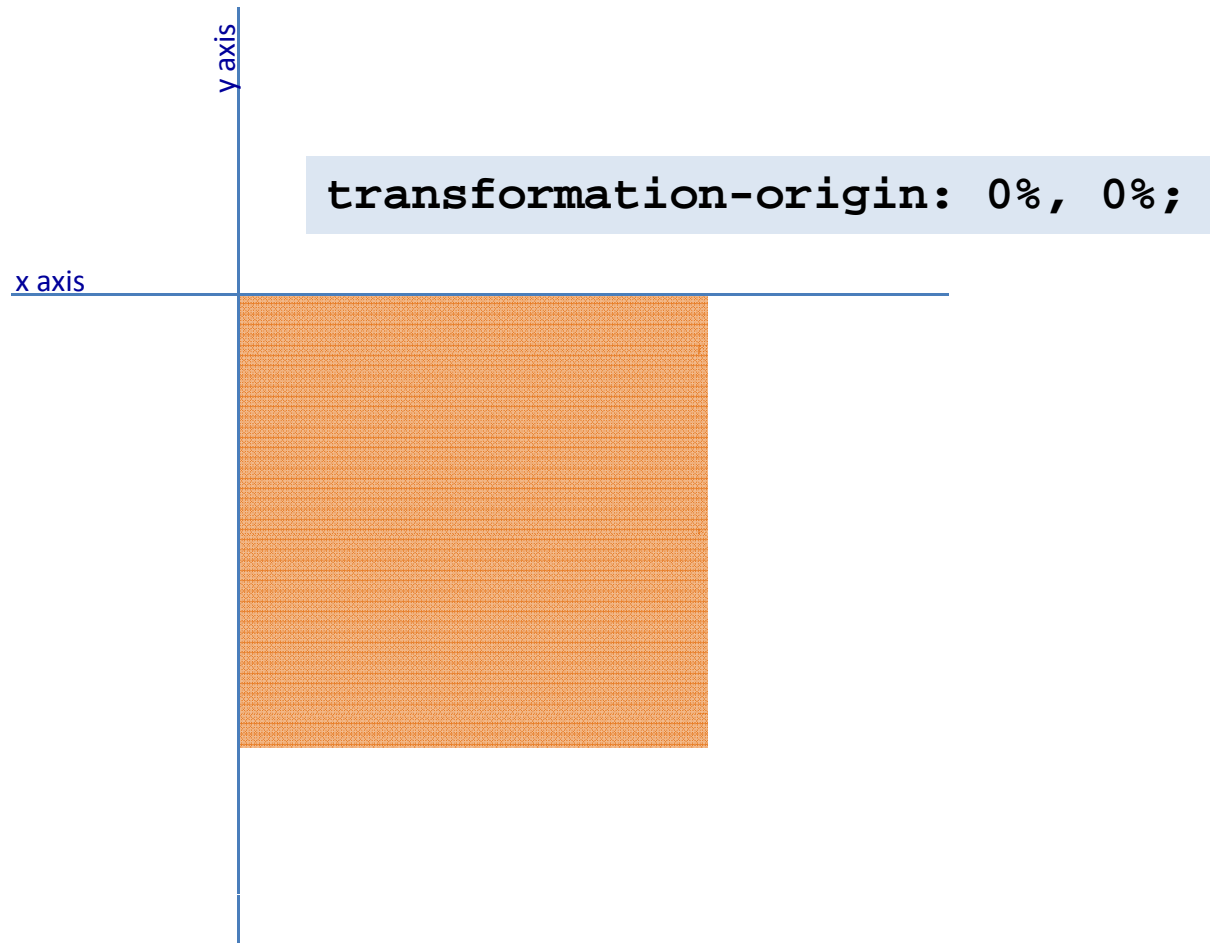
matrix(1, -0.2, 0, 1, 0, 0)	scaleX(1.3)
translate(12px, 14px)	scaleY(1.3)
translateX(12px)	rotate(10deg)
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scale(1.3)	skewY(60deg)



Transforms

Transform origins

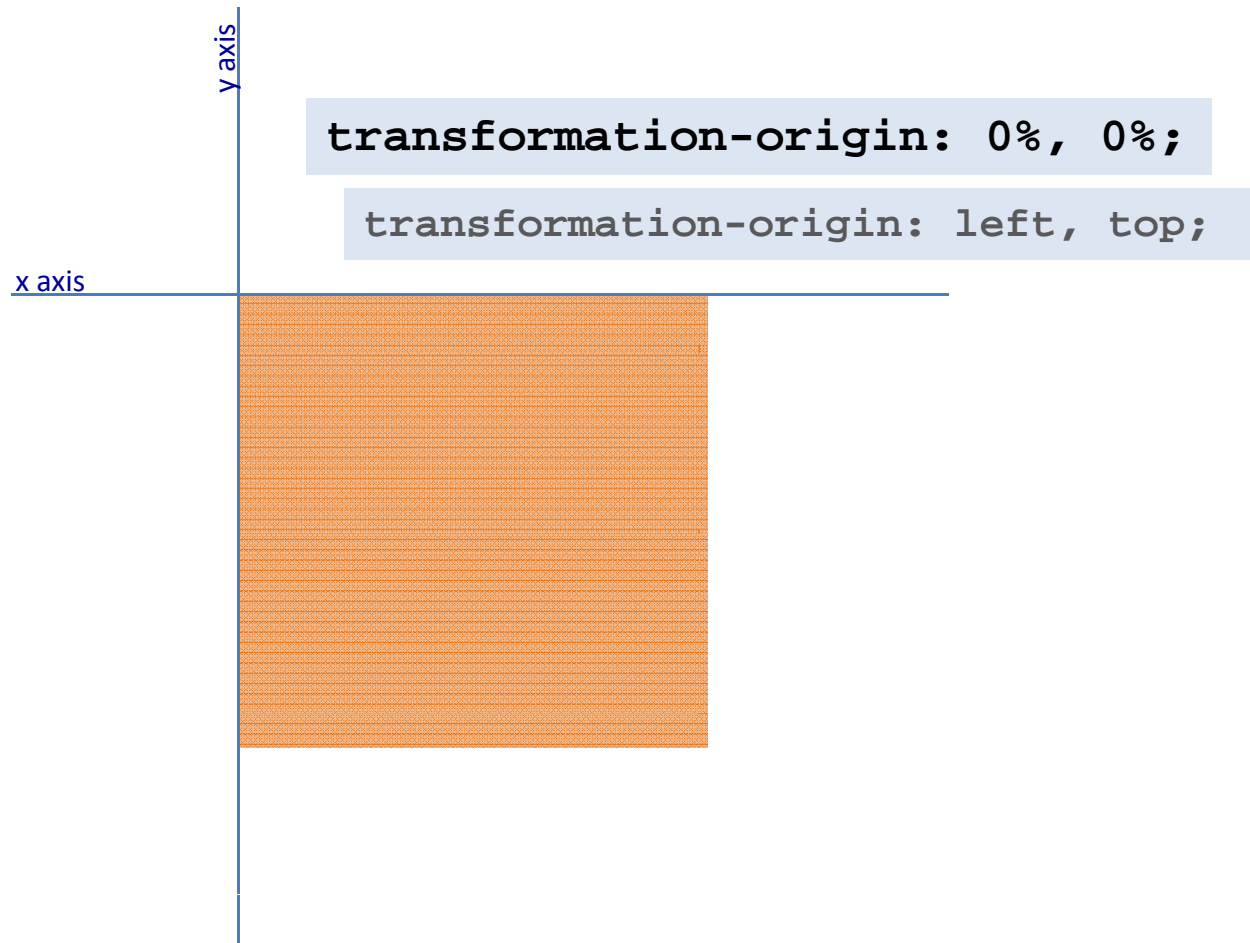
The point from which the transform originates, i.e. the pivot point



Transforms

Transform origins

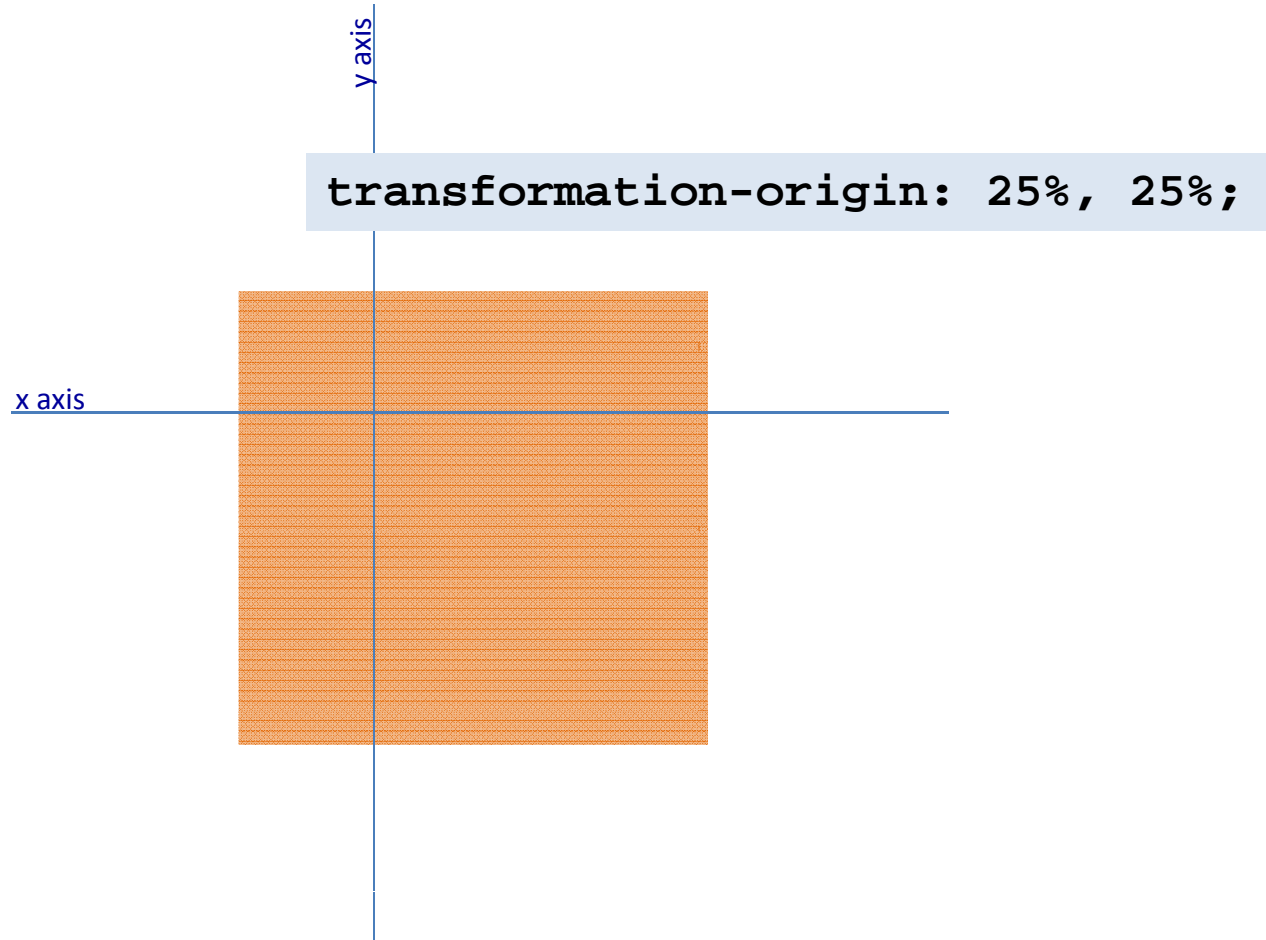
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Transforms

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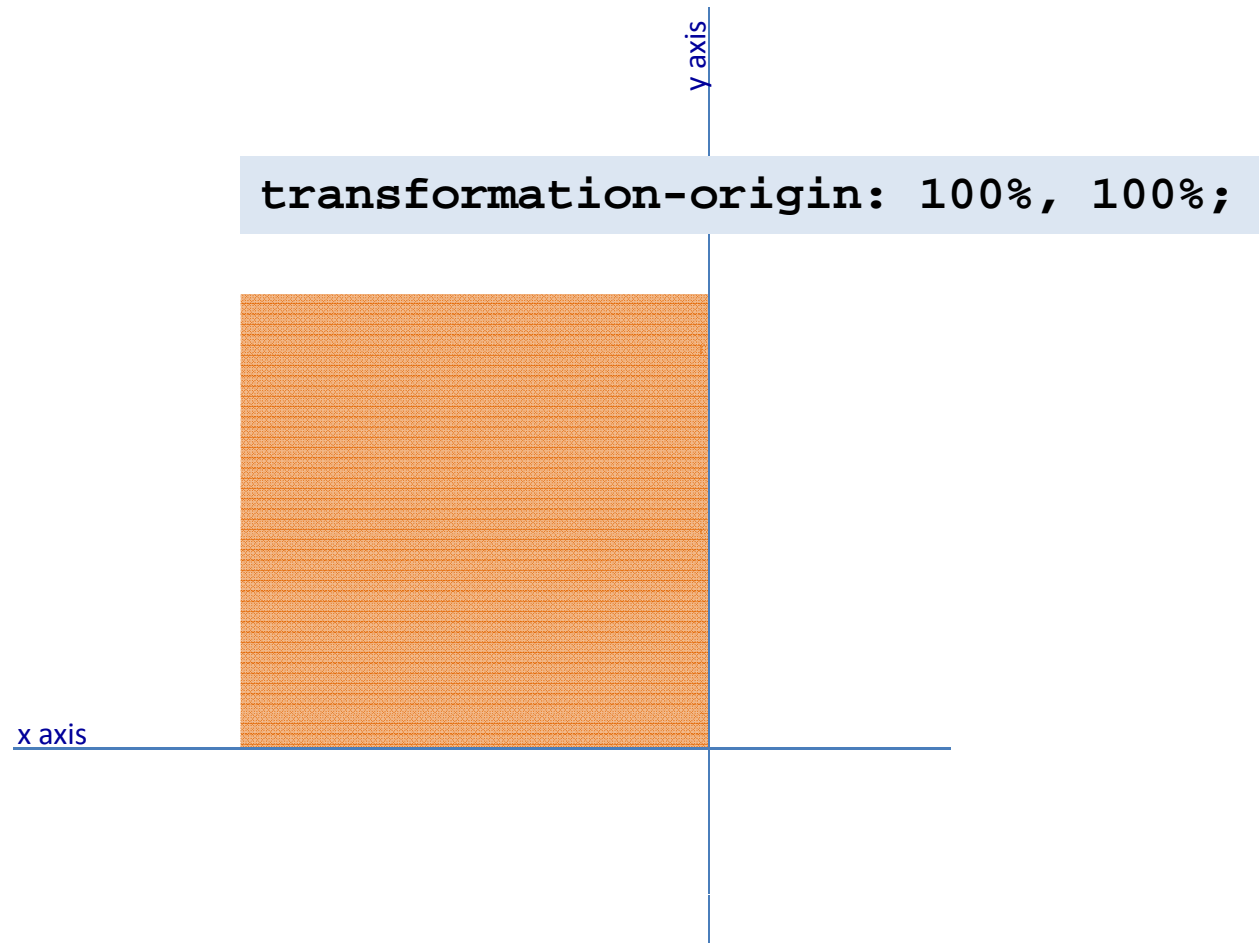
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Transforms

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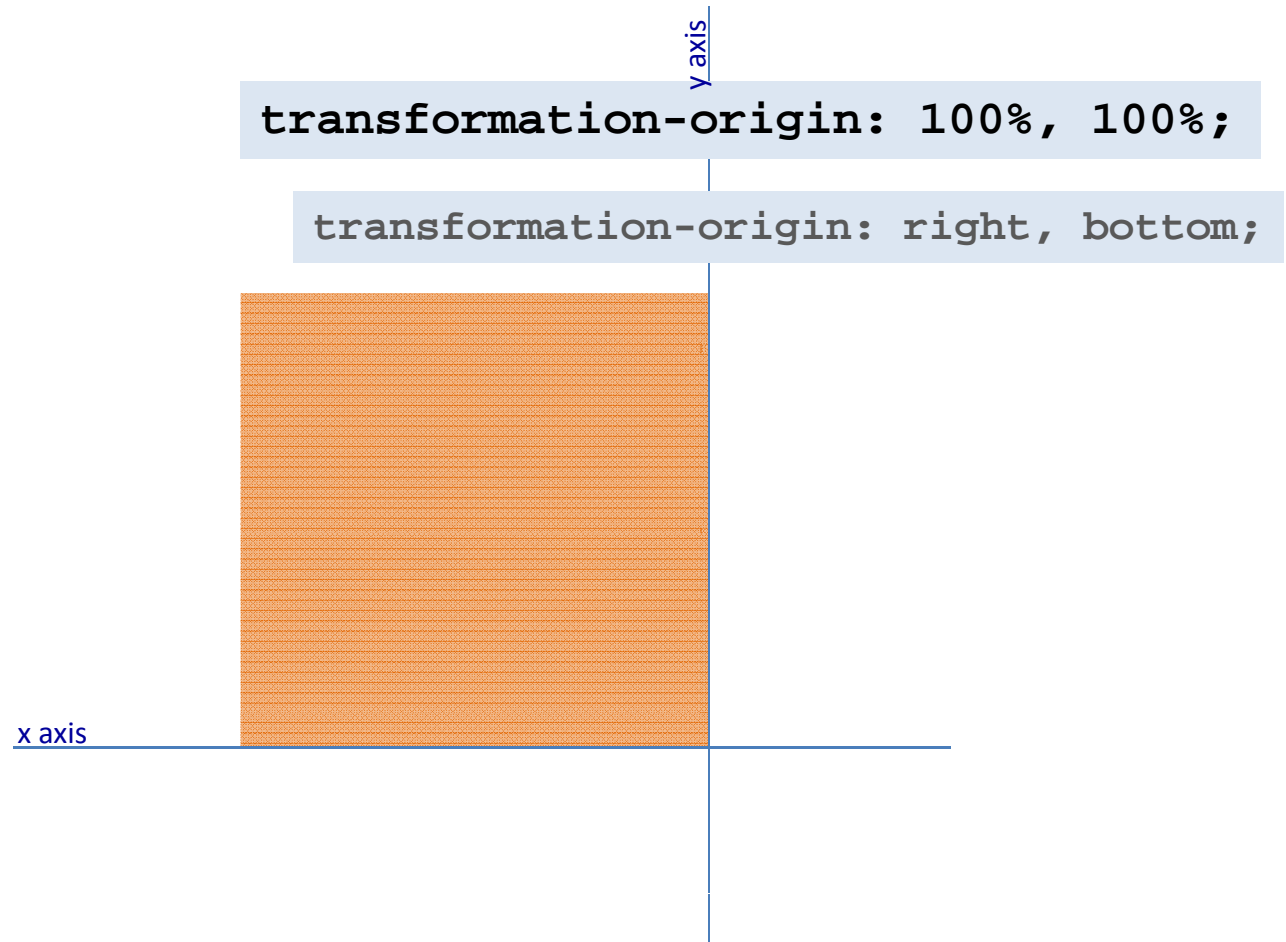
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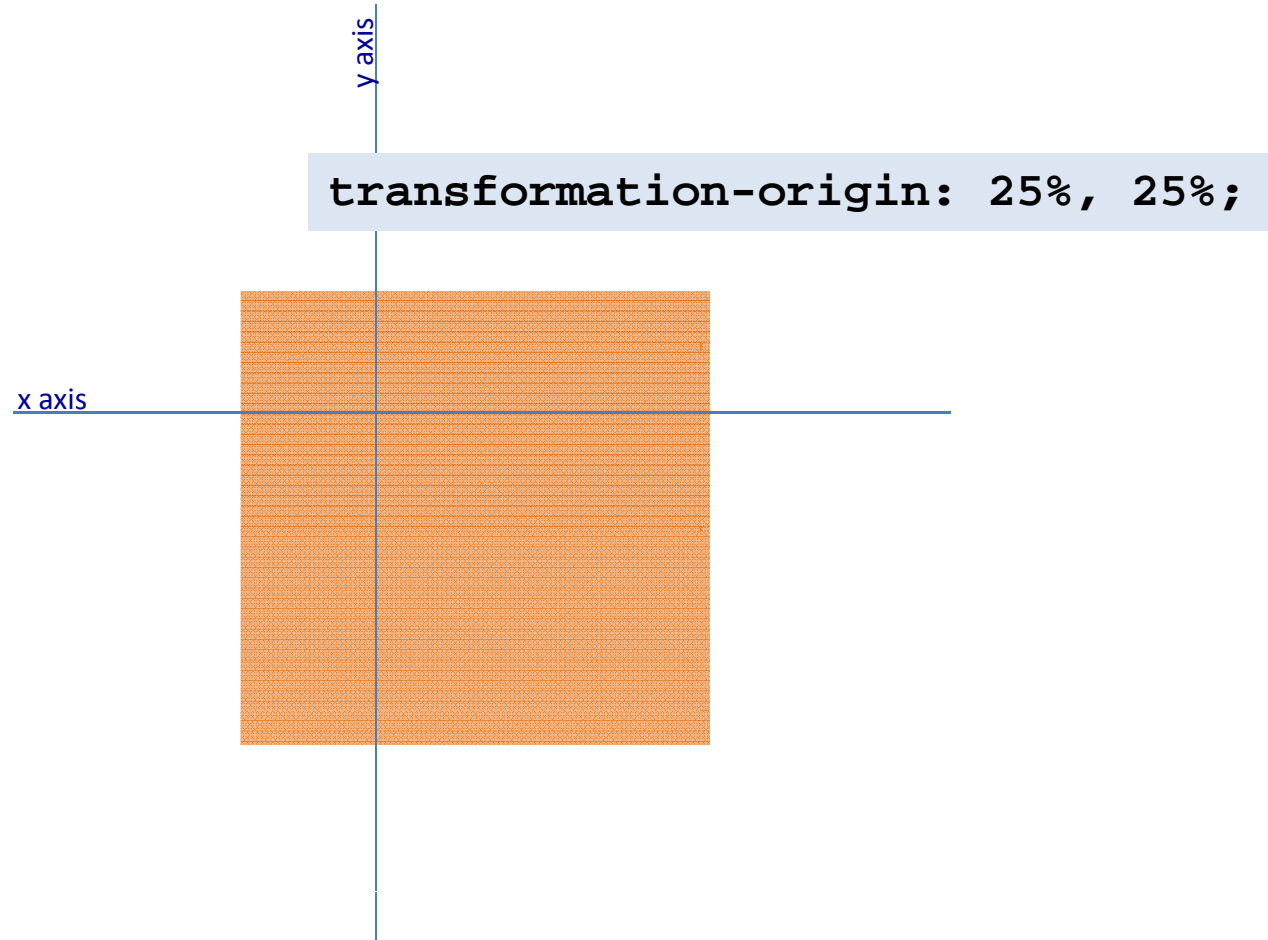
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Transforms

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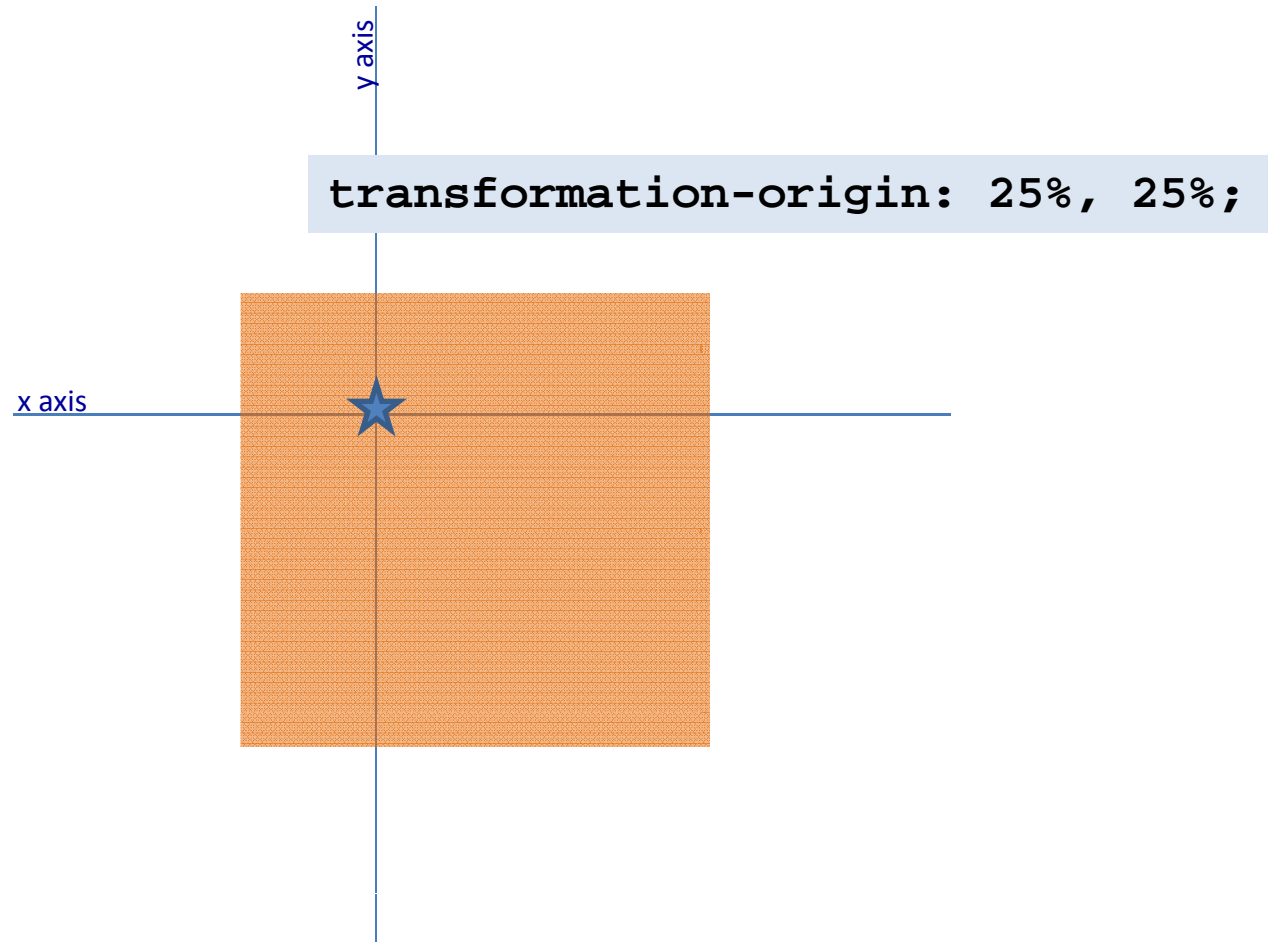
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Transforms

Transform origin

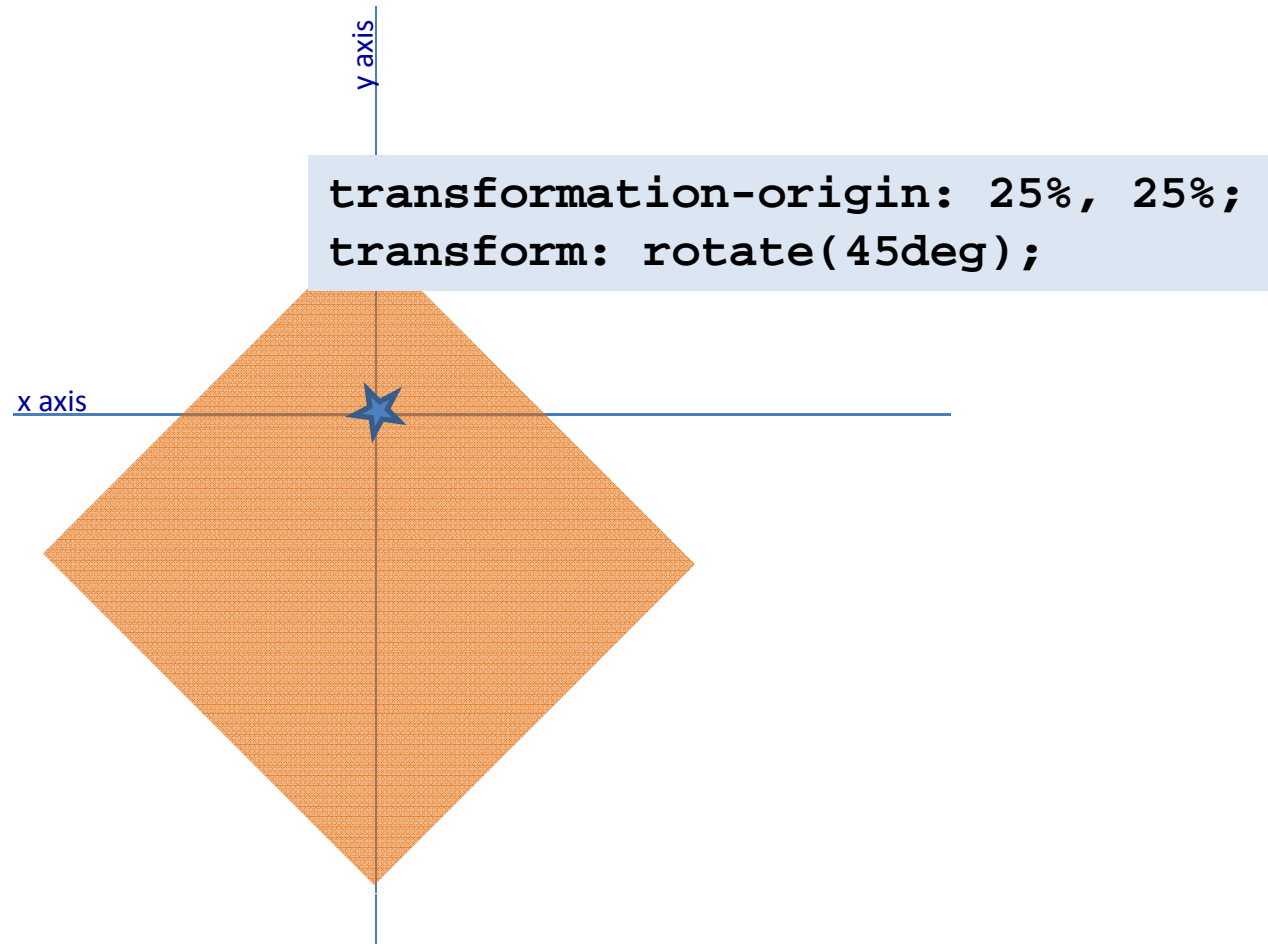
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Transforms

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Transitions

- CSS Transitions allows property changes in CSS values to occur smoothly over a specified duration
- This smoothing animates the changing of a CSS value **when triggered by a mouse click, focus or active state**
- Transition syntax:

transition-duration:

transition property

1.2s ;

transition value

Transitions

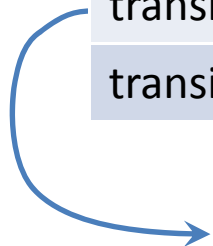
Transition properties

transition	Shorthand for setting the four transition properties into a single property
transition-property	The name of the CSS property to which the transition is applied
transition-duration	Length of time that a transition takes. Default 0
transition-timing-function	How the speed during a transition will be calculated
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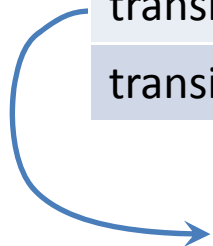


linear	animates at constant speed throughout
ease (default)	slow start faster middle and slow end
ease-in	starts slow and speeds up over time
ease-out	starts fast and slows down over time
ease-in-out	starts slow and speeds up, ends slow
cubic-bezier(<i>n,n,n,n</i>)	declares your own values (0,1), replace n with value.

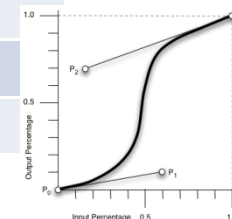
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Transitions

Shorthand notation:

`transition: property duration timing-function delay;`

`transition: height 3s ease-in-out 1s;`

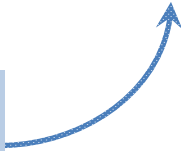
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change the
height property



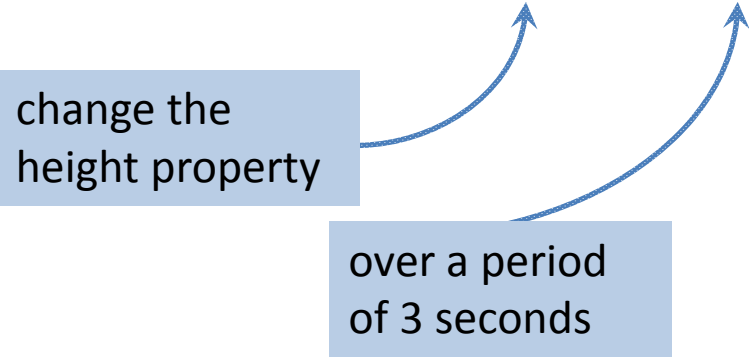
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change the
height property



over a period
of 3 seconds

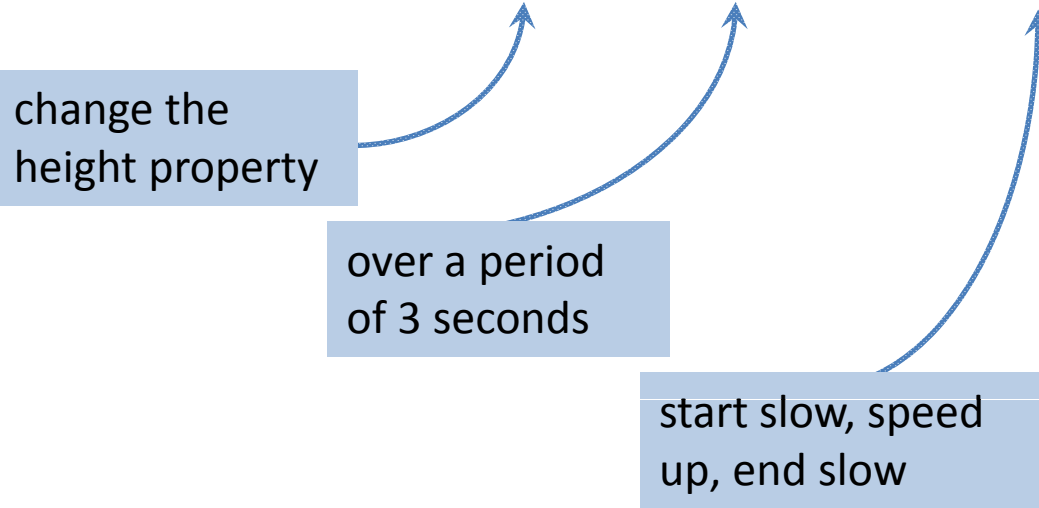
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over a period
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start slow, speed
up, end slow

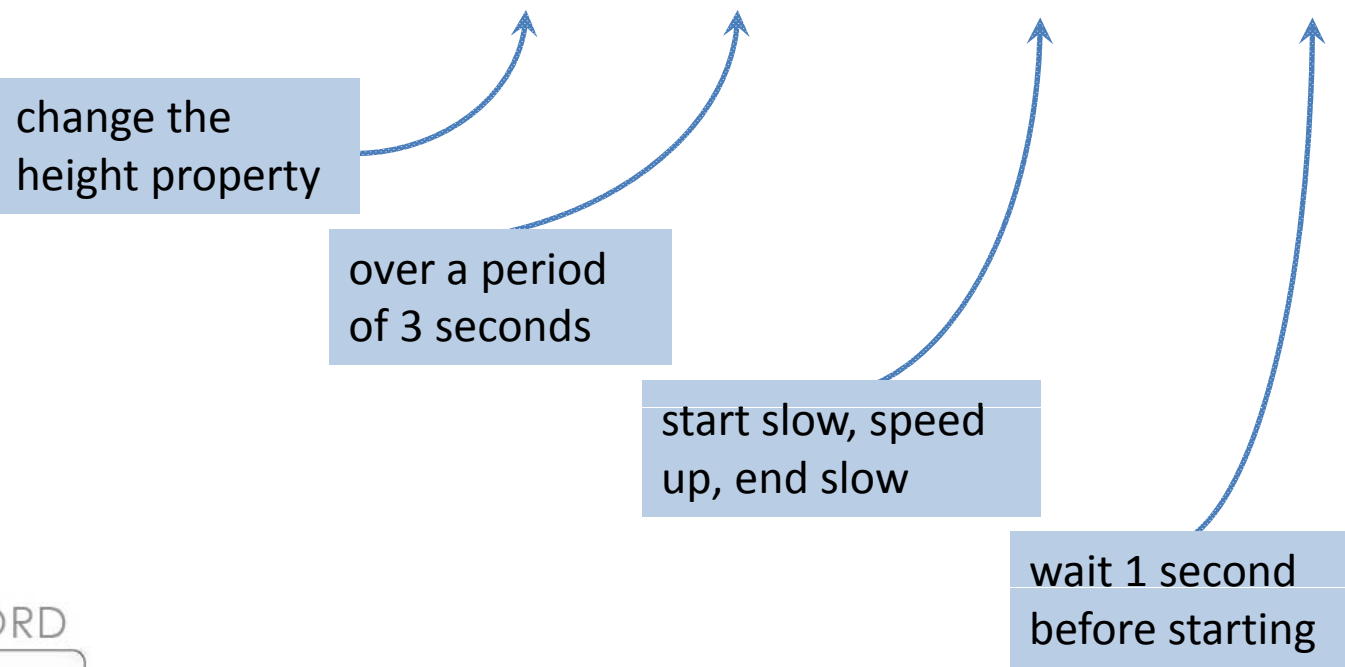
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change the
height property



over a period
of 3 seconds

start slow, speed
up, end slow

wait 1 second
before starting