CSS Transforms Cheat Sheet

Properties

transform

translate(1px, 5px), translateX(1px), translateY(5px)
scale(1.2, 1.5), scaleX(1.2), scaleY(1.5)
rotate(5deg) positive = clockwise
rotate(5deg, 10px, 5px) move x, y, then rotate
skew(10deg, 5deg), skewX(10deg), skewY(5deg)
matrix(1, 0, 0, .5,…) 3x3 = 9 numbers

translate3d(1px, 5px, 2px)
translateZ(5px) positive = closer
scale3d(1.2, .5, 2), scaleZ(2)
rotate3d(1, .5, .2, 10deg) first 3 numbers are multipliers
rotateX(10deg), rotateY(5deg), rotateZ(2deg)
perspective(800px) same as property, but not inherited
matrix3d(1, 0, .3, …) 4x4 = 16 numbers

e.g. *transform: translateX(-5px) rotate(10deg);*

perspective-origin, transform-origin

left, center (default), right, top, bottom, %, px

e.g. *transform-origin: left top 10px;* 3rd value is Z origin

transform-style

flat (default), preserve-3d

perspective

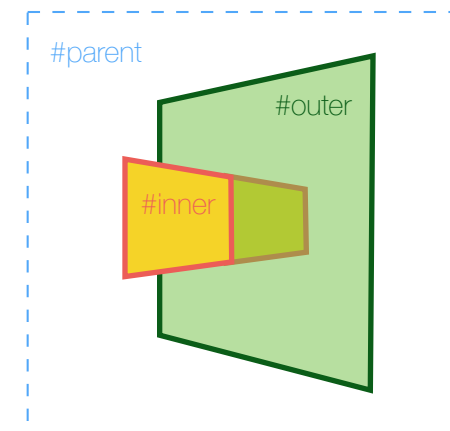e.g. *perspective: 800px;* smaller = closer = more distorted

backface-visibility

visible (default), hidden

Browser Support

	IE	Firefox	Chrome	Safari	Opera
2D	>9				
3D	>10				IE 10 & 11 don't support preserve-3d

	Mobile Safari	Opera Mini	Android	Blackberry	Opera Mobile	Chrome for Android	Firefox for Android	IE Mobile
2D								
3D					>22			

How To 3D

```
#parent {
    perspective: 800px;
}


#outer {
    transform: rotateY(-40deg);
    transform-style: preserve-3d;
}


#inner {
    transform: rotateY(90deg);
}
```


Tips

- order of operation matters
- IE doesn't support preserve-3d

Prefixes

-webkit Safari, Chrome
-moz   Firefox
-o   Opera
-ms   IE

e.g. *-webkit-transform: scale(1.1)*