Transition and Transform

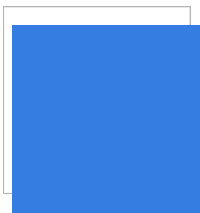## transition

Changes a CSS property's value smoothly, over time:

```css
div {
  background-color: #000;              /* initial background-color is set to black */
  transition-property: background-color;   /* specifies which properties will smoothly transition */
  transition-duration: 1s;             /* specifies duration of the transition */
  transition-timing-function: linear;  /* specifies how speed changes during transition */
  transition-delay: 2s;                /* specifies delay before transition begins */
}


  div:hover {
   background-color: #FFF;     /* background-color changes to white on hover */
  }


  transition: background-color 1s linear 2s;    /* shorthand syntax */
  /* example timing functions: ease, linear, ease-in, ease-out, ease-in-out, cubic-bezier(args) */
```

transform
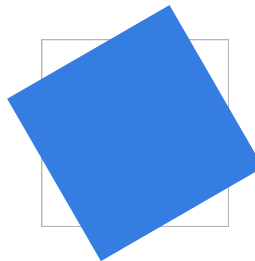
Modifies the shape or position of an element:

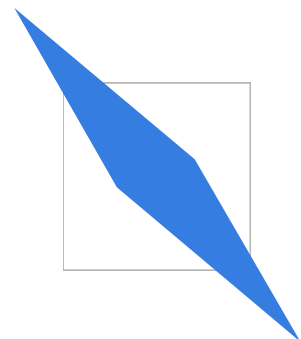|	
transform: translate(10px, 20px)	Moves the element horizontally and vertically
transform: scale(1.5, 0.5);	Enlarges or shrinks the element
transform: rotate(30deg);	Rotates the element
transform: skew(30deg, 40deg);	Skews the element on the 2D plane
transform: matrix(scaleX(), skewY(), skewX(), scaleY(), translateX(), translateY());	Shorthand syntax, where X and Y refer to horizontal and vertical axes, respectively

translate(10px, 20px)   scale(1.5, 0.5)   rotate(30deg)   skew(30deg, 40deg)