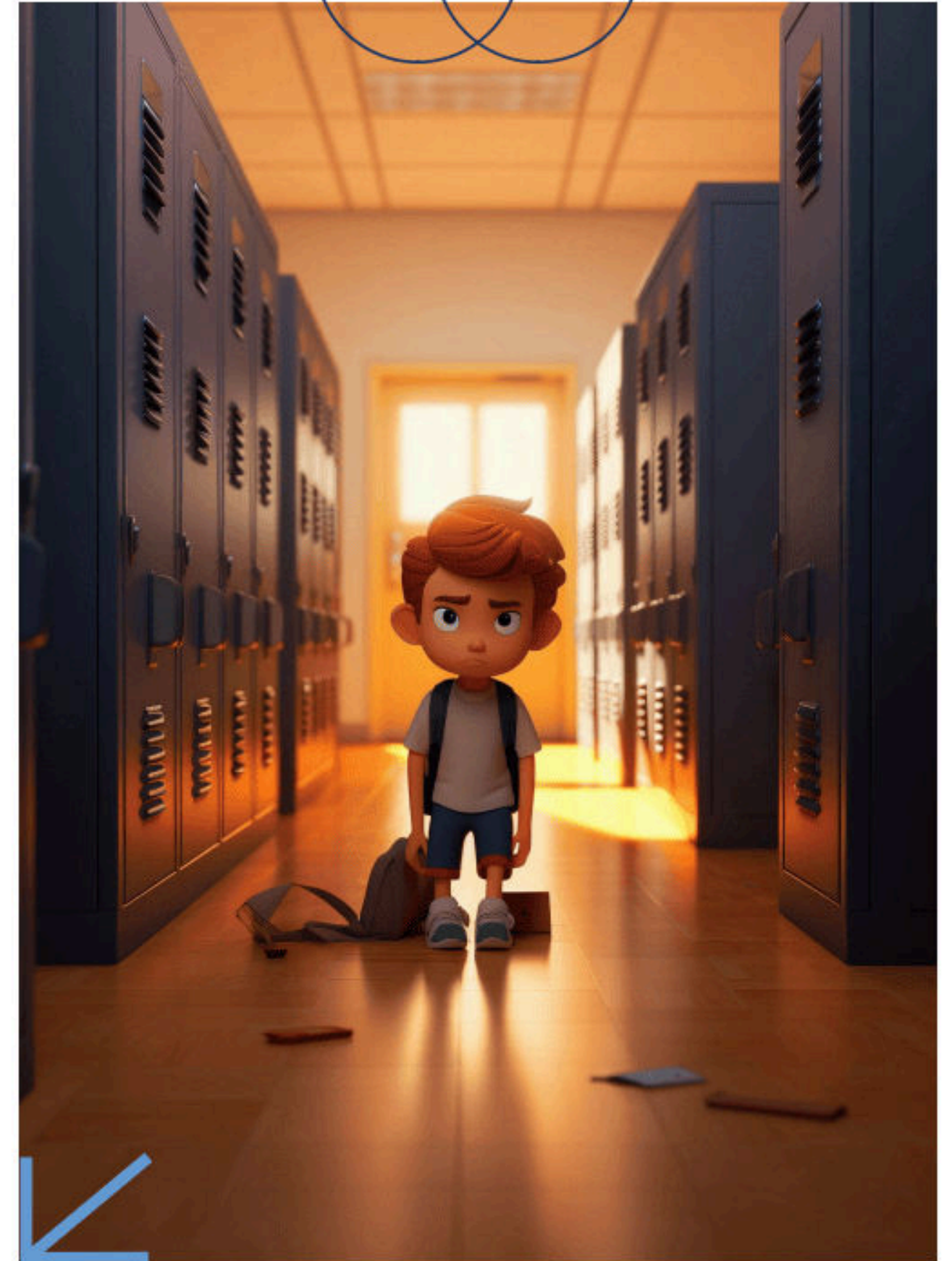


Mastering Animation, Transformation, and Transition: A Comprehensive Guide with Examples



Introduction

An overview of **animation**, transformation, and transition in design. Understanding the principles and techniques for creating engaging and dynamic visual experiences. Exploring the impact of *motion* on user interaction and engagement.



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CSS ANIMATIONS



What are CSS Animations?

An animation lets an element gradually change from one style to another.

You can change as many CSS properties you want, as many times as you want.

To use CSS animation, you must first specify some keyframes for the animation.

Keyframes hold what styles the element will have at certain times.

The @keyframes Rule

When you specify CSS styles inside the `@keyframes` rule, the animation will gradually change from the current style to the new style at certain times.

To get an animation to work, you must bind the animation to an element.

The following example binds the "example" animation to the `<div>` element. The animation will last for 4 seconds, and it will gradually change the background-color of the `<div>` element from "red" to "yellow":

CSS Animations

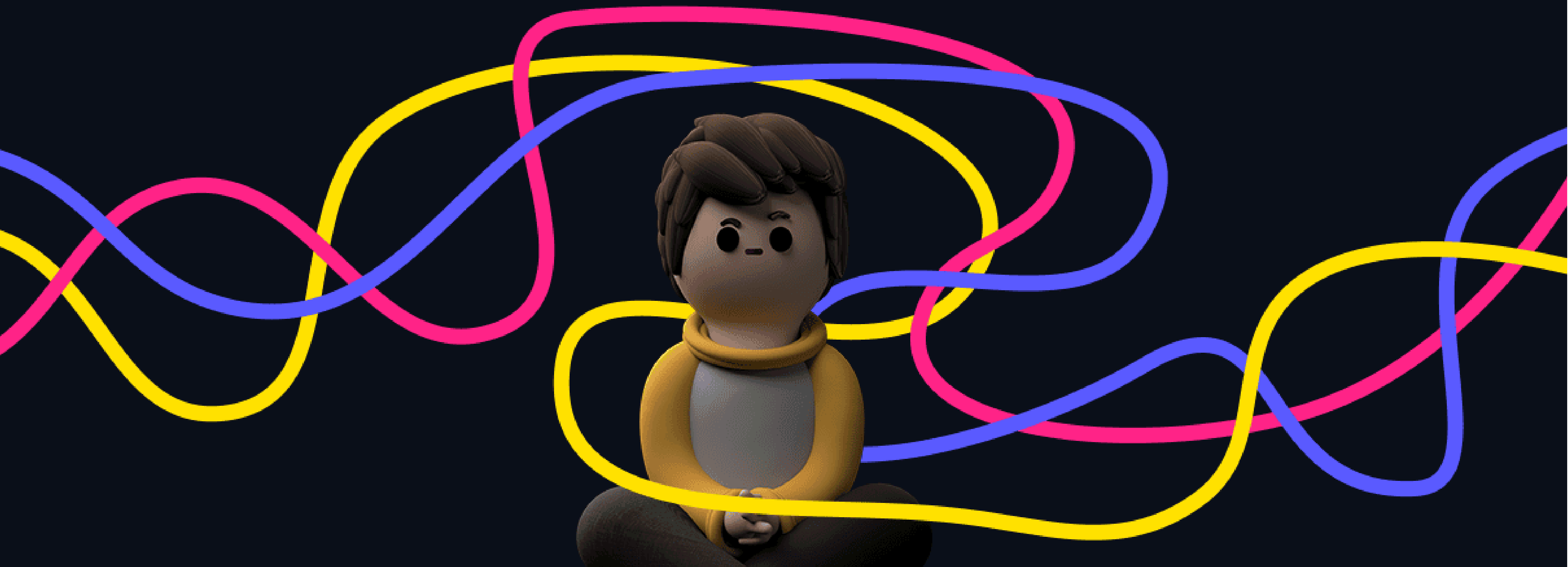
CSS allows animation of HTML elements without using JavaScript!

A green rounded square button with the text "CSS" in white, bold, sans-serif font.

In this chapter you will learn about the following properties:

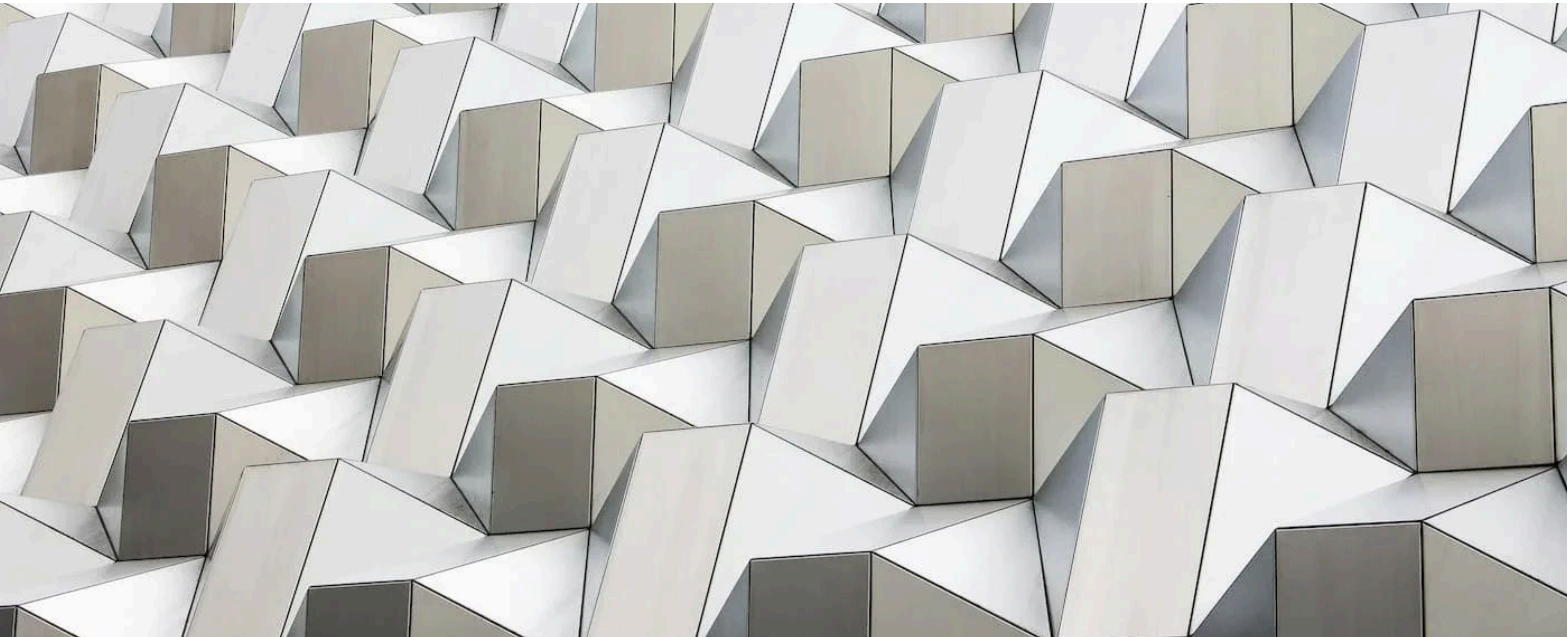
- `@keyframes`
- `animation-name`
- `animation-duration`
- `animation-delay`
- `animation-iteration-count`
- `animation-direction`
- `animation-timing-function`
- `animation-fill-mode`
- `animation`

CSS Transforms



Definition and Usage

The `transform` property applies a 2D or 3D transformation to an element. This property allows you to rotate, scale, move, skew, etc., elements.



Example

Rotate, skew, and scale three different <div> elements:

```
div.a {  
  transform: rotate(20deg);  
}
```

```
div.b {  
  transform: skewY(20deg);  
}
```

```
div.c {  
  transform: scaleY(1.5);  
}
```




TRANSITION

CSS Transitions

CSS transitions allows you to change property values smoothly, over a given duration.

Mouse over the element below to see a CSS transition effect:



In this chapter you will learn about the following properties:

- `transition`
- `transition-delay`
- `transition-duration`
- `transition-property`
- `transition-timing-function`

A top-down view of a person's hands working on a silver laptop on a light-colored wooden desk. The left hand holds a white ceramic cup filled with black coffee. The right hand is positioned near the laptop's trackpad. A large, semi-transparent blue diamond shape is centered over the laptop, containing the text 'THANK YOU' in white, bold, sans-serif capital letters. The person is wearing a green ribbed sweater.

THANK
YOU