#### **TRansition**

```
!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8">
initial-scale=1.0">
   <title>Document</title>
     div{
   width: 100px;
   height: 100px;
    transition: width 2s , height 2s;
div:hover{
   width: 300px;
   height: 300px;
```

# The transition-timing-function Property

```
transition -timing-function 
Ease in \rightarrow specifies transition with slow start 
Ease-out – specifies transition with slow end 
ease -in-out \rightarrow slow \rightarrow start and end 
Linear \rightarrow same speed s
```

```
!DOCTYPE html>
div {
 width: 100px;
 height: 100px;
 background: red;
 transition: width 2s;}
#div1 {transition-timing-function: linear;}
#div2 {transition-timing-function: ease;}
#div3 {transition-timing-function: ease-in;}
#div4 {transition-timing-function: ease-out;}
#div5 {transition-timing-function: ease-in-out;}
div:hover {
 width: 300px;
<h1>The transition-timing-function Property</h1>
Hover over the div elements below, to see the different speed
curves:
<div id="div1">linear</div><br>
<div id="div2">ease</div><br>
<div id="div3">ease-in</div><br>
div id="div4">ease-out</div><br>
<div id="div5">ease-in-out</div><br>
```

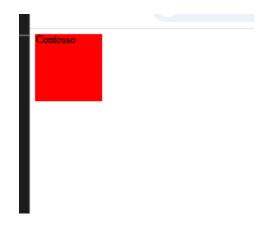
## ToolTip (tRANSITION dELAY)

```
<!DOCTYPE html>
<html lang="en">
<head>

<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>Document</title>
    <style>
        .button{
            display: inline-block;
            padding: 10 px 20 px ;
            background-color: blue;
            color: white;
            position: relative
        }
        .button .tooltip{
            position: absolute;
            left: 50%;
          transform: translateX(-50%);
          background-color: rgb(8, 8, 8);
          color: white;
          padding: 5px 10px;
          font-size: 12px;
          opacity: 0;
          transition: opacity 0.3s ease, transform 3s ease;
          transition-delay: 1s;
         }
        .button:hover .tooltip{
            opacity: 1;
            transform: translateX(-50%) translateY(-5px);
    </style>
</head>
<body>
   <button class="button">
        Hover Me
        <span class="tooltip"> This is a tooltip with a delay </span>
    </button>
</body>
</html>
```

## **Rotate and transform**





```
div p{
       display: none;
   div:hover{
       width: 300px;
       height: 300px;
       transform:rotate(360deg);
       font-size: 2em;
  div:hover p{
   display: block;
</style>
</head>
<body>
   <div>
       Contosso
        Hover over the elements
   </div>
</body>
</html>
```

## **CSS ANIMATIONS**

**CSS ANIMATIONS** — enable to animate transitions between **CSS STATES** 

@keyframes and animation

```
• KEYFRAME — Defines the keyframes animations or steps
@keyframes animation-name{
0%{
}
50%{}
100%{}
```

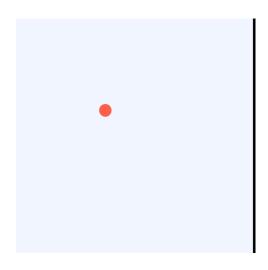
**Animation: shorthand property** 

Animation-name duration timing-function-delay iteration-count direction fill-mode play-state pauses or resumes animation

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
   <title>Document</title>
   <style>
        .stage{
            background: rgb(189, 189, 189);
            border-radius: 6px;
            height: 150px;
            position: relative;
            min-width: 540px;
        @keyframes slide{
            0% {
                left: 0;
                top:0;
            50%{
                left: 244px;
                top:100px;
            100%{
                left : 488px;
                top:0;
        .stage:hover .ball{
            animation: slide 2s linear infinite ;
```

```
.ball{
            background: rgb(3, 100, 3);
            border-radius: 50%;
            height: 50px;
            width: 50px;
            position: absolute;
    </style>
</head>
<body>
   <body>
        <div class="stage">
            <figure class="ball"></figure>
          </div>
    </body>
</body>
</html>
```

#### **Ball Bounce**



```
0%, 100% {
        transform: translateY(0);
      }
      50% {
       transform: translateY(-200px);
 </style>
</head>
<body style="margin: 0; display: flex; justify-content: center;</pre>
align-items: center; height: 100vh; background-color: #f0f8ff;
overflow: hidden;">
 <div style="
   width: 50px;
   height: 50px;
   background-color: #ff6347;
   border-radius: 50%;
   animation: bounce 1.5s infinite ease-in-out;
 "></div>
</body>
</html>
```

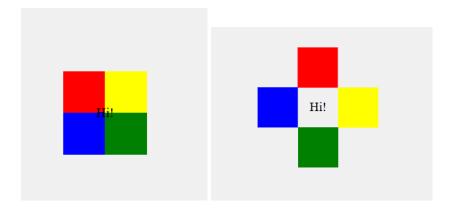
## **Animation practice**



```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>Document</title>
   <style>
            body {
      font-family: Arial, sans-serif;
      display: flex;
      flex-direction: column;
      align-items: center;
      justify-content: center;
     height: 100vh;
     margin: 0;
      background: linear-gradient(120deg, #f6d365, #fda085);
    }
   h1 {
      animation: fadeIn 2s ease-in-out;
      color: white;
     margin-bottom: 40px;
    }
```

```
.box-container {
 display: flex;
 gap: 20px;
.box {
 width: 100px;
 height: 100px;
 display: flex;
 justify-content: center;
 align-items: center;
 color: white;
 font-weight: bold;
 border-radius: 8px;
 text-align: center;
}
/* Animations for individual boxes */
.fade-box {
 background-color: #6c5ce7;
 animation: fadeIn 2s ease-in-out infinite alternate;
.slide-box {
 background-color: #00cec9;
 animation: slideUp 1.5s ease-in infinite alternate;
}
.rotate-box {
 background-color: #e17055;
 animation: rotate 3s linear infinite;
.scale-box {
 background-color: #fdcb6e;
 animation: scaleUp 1.5s ease-in-out infinite alternate;
@keyframes fadeIn{
    from{
      opacity: 0;
   to{
        opacity:1;
```

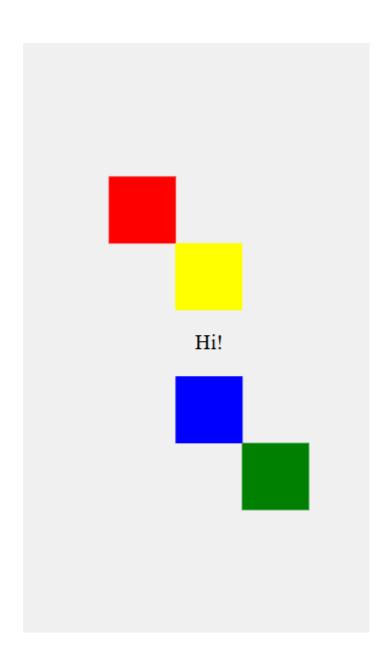
```
}
   @keyframes slideUp{
       from{
            transform: translateY(50px)
       to{
            transform: translateY(0px)
        }
     @keyframes rotate{
       from{
            transform: rotate(0deg);
       to{
           transform: rotate(360deg);
        }
     }
     @keyframes scaleUp{
       from{
           transform: scale(1);
        }
       to{
           transform: scale(1.5);
       }
   </style>
</head>
<body>
   <h1>CSS Animation Practice</h1>
   <div class="box-container">
     <div class="box fade-box">Fade</div>
     <div class="box slide-box">Slide</div>
     <div class="box rotate-box">Rotate</div>
     <div class="box scale-box">Scale</div>
   </div>
</body>
</html>
```

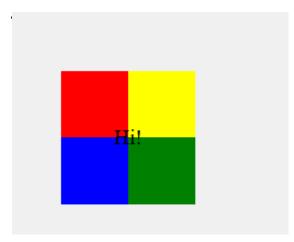


```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
   <title>Document</title>
<style>
            html,
        body {
            width: 100%;
            height: 100%;
            margin: 0;
            display: flex;
            justify-content: center;
            align-items: center;
            background-color: #f0f0f0;
        }
        div#main {
            position: relative;
            height: 200px;
            width: 200px;
            margin: auto;
            cursor: pointer;
        }
        div#main .content {
            position: absolute;
            text-align: center;
            width: 200px;
            top: 50%;
            transform: translate(0, -50%);
```

```
font-size: 24pt;
            z-index: 10;
        }
        div#main .topleft,
        div#main .topright,
        div#main .bottomleft,
        div#main .bottomright {
            display: inline-block;
            position: absolute;
            width: 100px;
            height: 100px;
            transition: transform 0.5s ease-in-out, top 0.5s
ease-in-out, left 0.5s ease-in-out;
        div#main .topleft{
    top:0;
   left:0px;
   background-color: red;
    transform-origin: bottom right;
div#main .topright{
    top:0;
   left:100px;
   background-color: rgb(201, 255, 75);
    transform-origin: bottom left;
div#main .bottomleft{
   top:100px;
   left:0px;
   background-color: rgb(22, 6, 247);
    transform-origin: top right;
div#main .bottomright{
    top:100px;
   left:100px;
   background-color: rgb(0, 255, 149);
    transform-origin: top left;
div#main:hover .topleft{
```

```
transform: rotate(90deg);
    top: -50px;
    left: -50px;
div#main:hover .topright{
    transform: rotate(90deg);
    top: -50px;
    left: 150px;
div#main:hover .bottomleft{
    transform: rotate(90deg);
    top: 150px;
   left: -50px;
div#main:hover .bottomright{
   transform: rotate(90deg);
   top: 150px;
   left: 150px;
</style>
</head>
<body>
   <div id ="main">
       <div class="content">Hi</div>
       <div class="topleft"></div>
       <div class="topright"></div>
        <div class="bottomleft"></div>
        <div class="bottomright"></div>
   </div>
</body>
</html>
```





```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>Document</title>
    <style>
        html,
        body {
            width: 100%;
            height: 100%;
            margin: 0;
            display: flex;
            justify-content: center;
            align-items: center;
            background-color: #f0f0f0;
        }
        div#main {
            position: relative;
            height: 200px;
            width: 200px;
            margin: auto;
            cursor: pointer;
        div#main .content {
            position: absolute;
            text-align: center;
            width: 200px;
            top: 50%;
            transform: translate(0, -50%);
            font-size: 24pt;
            z-index: 10;
        div#main .topleft,
        div#main .topright,
        div#main .bottomleft,
        div#main .bottomright {
            display: inline-block;
            position: absolute;
```

```
width: 100px;
            height: 100px;
            transition: transform 0.5s ease, top 0.5s ease, left 0.5s
ease;
        }
        div#main .topleft {
            top: 0;
            left: 0;
            background: red;
            transform-origin: 100% 0;
        }
        div#main .topright {
            top: 0;
            left: 100px;
            background: yellow;
            transform-origin: 0 0;
        div#main .bottomleft {
            top: 100px;
            left: 0;
            background: blue;
            transform-origin: 100% 100%;
        }
        div#main .bottomright {
            top: 100px;
            left: 100px;
            background: green;
            transform-origin: 0 100%;
        /* Hover effect: Open the boxes and separate them */
        div#main:hover .topleft {
            transform: rotate(90deg);
            top: -50px;
            left: -50px;
        div#main:hover .topright {
            transform: rotate(90deg);
```

```
top: -50px;
            left: 150px;
        }
       div#main:hover .bottomleft {
            transform: rotate(90deg);
            top: 150px;
            left: -50px;
        }
       div#main:hover .bottomright {
            transform: rotate(90deg);
            top: 150px;
            left: 150px;
        }
   </style>
</head>
<body>
<h1>Exercise</h1>
Hover over the div element below.
<div id="main">
   <div class="content">Hi!</div>
   <div class="topleft"></div>
   <div class="topright"></div>
   <div class="bottomleft"></div>
   <div class="bottomright"></div>
</div>
</body>
</html>
```

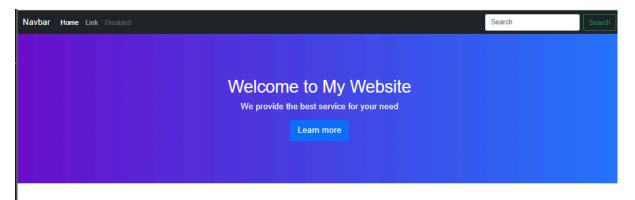
## Clip path property

https://www.w3schools.com/cssref/tryit.php?filename=trycss\_func\_polygon

#### **Cubic beziar**

https://www.w3schools.com/cssref/tryit.php?filename=trycss\_func\_cubic-bezier2

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
   <title>Document</title>
<style>
   .box{
   width: 100px;
   height: 100px;
   background-color: lightblue;
   animation: movebox 2s cubic-bezier(0.42 , 0 , 0.58, 1) infinite;
@keyframes movebox{
   0%{
        transform : translateX(0);
   50%{
        transform: translateX(120px)
    }
   100%
    {
        transform: translateX(300px);
</style>
</head>
<body>
   <div class="box">
   </div>
</body>
</html>
```



#### **Our Service**



Some quick example text to build on the card title and make up the bulk of the card's content.



Some quick example text to build on the card title and make up the bulk of the card's content.



Some quick example text to build on the card title and make up the bulk of the card's content.

© 2025 MyWebsite .All rights Reserved

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
    <title>Document</title>
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.m
in.css" rel="stylesheet"
integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65Vohh
puuCOmLASjC" crossorigin="anonymous">
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bun
dle.min.js"
integrity="sha384-MrcW6ZMFY1zcLA8N1+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcX
n/tWtIaxVXM" crossorigin="anonymous"></script>
<style>
```

```
body{
       font-family: 'Arial' , sans-serif;
       width: 100vh;
   .hero{
       background: linear-gradient(to right , #6a11cb , #2575fc);
       color: white;
       padding: 100px 0;
       text-align : center;
   }
   .card:hover{
       transform: translateY(-10px);
       transition: all 0.3s ease
   footer{
       background-color: #333;
       color:white;
       text-align: center;
       padding: 20px;
</style>
</head>
<body>
   <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
       <div class="container-fluid">
         <a class="navbar-brand" href="#">Navbar</a>
         <button class="navbar-toggler" type="button"</pre>
data-bs-toggle="collapse" data-bs-target="#navbarTogglerDemo02"
aria-controls="navbarTogglerDemo02" aria-expanded="false"
aria-label="Toggle navigation">
           <span class="navbar-toggler-icon"></span>
         </button>
         <div class="collapse navbar-collapse"</pre>
id="navbarTogglerDemo02">
           <a class="nav-link active" aria-current="page"</pre>
href="#">Home</a>
             <a class="nav-link" href="#">Link</a>
```

```
<a class="nav-link disabled" href="#" tabindex="-1"</pre>
aria-disabled="true">Disabled</a>
             <form class="d-flex">
             <input class="form-control me-2" type="search"</pre>
placeholder="Search" aria-label="Search">
             <button class="btn btn-outline-success"</pre>
type="submit">Search</button>
           </form>
         </div>
       </div>
     </nav>
     <section class="hero">
    <div class="container">
       <h1> Welcome to My Website</h1>
       We provide the best service for your need
      <a href="#services" class="btn btn-primary btn-lg">Learn more
</a>
    </div>
     </section>
     <section id="services" class="py-5">
       <div class="container">
          <h2 class="text-center mb-5" > Our Service</h2>
          <div class="row">
           <div class="col-md-4">
               <div class="card" style="width: 18rem;">
                   <imq
src="https://cdn.pixabay.com/photo/2023/06/01/05/58/sign-8032702_640.jp
g" class="card-img-top" alt="...">
                     <div class="card-body">
                      Some quick example text to
build on the card title and make up the bulk of the card's content.
                  </div>
           </div>
       </div>
       <div class="col-md-4">
           <div class="card" style="width: 18rem;">
```

```
<img
src="https://cdn.pixabay.com/photo/2023/06/01/05/58/sign-8032702 640.jp
g" class="card-img-top" alt="...">
                 <div class="card-body">
                  Some quick example text to
build on the card title and make up the bulk of the card's content.
              </div>
       </div>
          </div>
          <div class="col-md-4">
           <div class="card" style="width: 18rem;">
              <img
src="https://cdn.pixabay.com/photo/2023/06/01/05/58/sign-8032702 640.jp
g" class="card-img-top" alt="...">
                 <div class="card-body">
                  Some quick example text to
build on the card title and make up the bulk of the card's content.
              </div>
       </div>
       </div>
     </section>
     <footer>
       <div class="container">
           © 2025 MyWebsite .All rights Reserved
       </div>
     </footer>
</body>
</html>
```

**Assignment: Create a Responsive Website Using Bootstrap** 

#### Objective:

Develop a fully responsive website utilizing Bootstrap's framework to demonstrate your understanding of its grid system, components, and utility classes.

## Requirements:

- 1. The website must include the following pages:
  - Home Page: A landing page with a hero section, navbar, and footer.
  - About Page: A page describing the website or yourself, featuring a card layout.
  - Contact Page: A form for users to submit their contact details.
- 2. Design Elements to Include:
  - Use the Bootstrap Grid System to structure your layout.
  - Add a Navbar for navigation across the pages.
  - Use at least two Bootstrap Components such as modals, carousels, or cards.
  - Style buttons and text using Bootstrap Utility Classes.
  - Add at least one Responsive Image.

## 3. Additional Features:

- Ensure the website is mobile-friendly and adapts seamlessly to different screen sizes.
- Include a form validation example using Bootstrap's built-in validation styles