# CSS Animations and Transformations

Imagine having a sidebar with images at varying angles and then animating them. The aim is to have them 'shake' when the page is first visited. Here is the markup for the sidebar:

Create a HTML file and a CSS file Add the following markup into the HTML page

*<body id="quiz">*

*<aside>*

*<div role="complementary">*

*<div class="sideBlock unSung">*

*<h1>Unsung heroes...</h1>*

*<a href="#"><img src="img/midnightRun.jpg"*

*alt="Midnight Run" /></a>*

*<a href="#"><img src="img/wyattEarp.jpg"*

*alt="Wyatt Earp" /></a>*

*</div>*

*</div>*

*<div role="complementary">*

*<div class="sideBlock overHyped">*

*<h1>Overhyped nonsense...</h1>*

*<a href="#"><img src="img/moulinRouge.jpg"*

*alt="Moulin Rouge" /></a>*

*<a href="#"><img src="img/kingKong.jpg"*

*alt="King Kong" /></a>*

*</div>*

*</div>*

*</aside>*

*</body>*

Download the images from Blackboard- save them in the correct location. Save the HTML file and open it in a browser to see how it looks.

Now we can add the CSS3 to make this work. First, we will create a new keyframe declaration called swing

*@-webkit-keyframes swing {*

*from {*

*transform: rotate(3deg);*

*}*

*20% {*

*transform: rotate(7deg);*

*}*

*60% {*

*transform: rotate(10deg);*

*}*

*80% {*

*transform: rotate(7deg);*

*}*

*to {*

*transform: rotate(3deg);*

*}*

*}*

The animation will use the 2D rotate transform to move the item from 3 degrees to 10 and back again. And here's how the animation property is added:

*#quiz .unSung a:nth-child(odd) img {*

*transform: rotate(3deg);*

*animation: swing 0.1s 5 ease-in;*

*}*

*#quiz .unSung a:nth-child(even) img {*

*transform: rotate(-3deg);*

*animation: swing 0.1s 5 0.3s ease-in;*

*}*

*#quiz .overHyped a:nth-child(odd) img {*

*transform: rotate(3deg);*

*animation: swing 0.1s 5 0.2s ease-in;*

*}*

*#quiz .overHyped a:nth-child(even) img {*

*transform: rotate(-3deg);*

*animation: swing 0.1s 5 0.5s ease-in;*

*}*

Now we can break this down. Firstly by relying on CSS specificity we can target these rules only at this page (which has a <body id="quiz"> tag).

Before adding the animation property, I want to set a default rotate transform so that they remain off-kilter when the animation completes. I don't want them all at the same angle—so let's use the nth-child selector described here - <http://www.w3schools.com/cssref/sel_nth-child.asp> to select the odd and even images and apply different rotation transforms to them.

Then the animation property is added for each instance. You will notice slight variations in each of the rules. The shorthand property also takes into account that the second time value given ( 0.5s ) is assigned to the animation delay. By utilizing this value, we can effectively fire off each different instance separately.

Save the CSS file and check it change how it has changed the webpage.

<https://blog.gyrosco.pe/smooth-css-animations-7d8ffc2c1d29?imm_mid=0ea80e#.xaw5dnrxq>