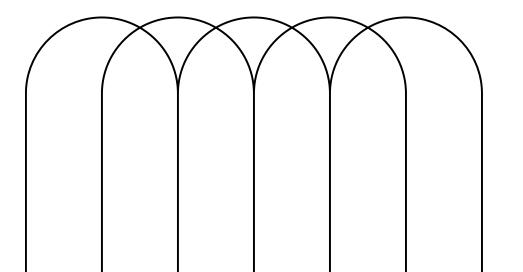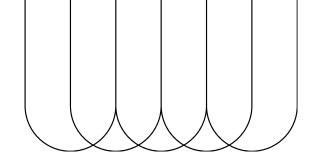# CSS Animations and CSS box shadow

CSS Animations

CSS animation allows elements on a web page to change their appearance over time without requiring JavaScript. This makes animations more efficient, smoother, and easier to implement.
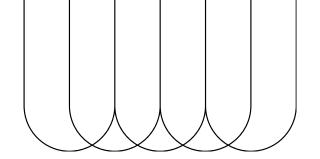
CSS Transitions

CSS transitions allow you to change CSS properties smoothly over a given duration. It works by specifying which properties should be animated and over what duration.

Syntax

```
selector {
    transition: property duration timing-function delay;
}
```

Example

```
a {
    color: black;
    transition: color 0.5s ease-in-out;
}
a:hover {
    color: red;
}
```

CSS Transition

Transition Properties

The transition property is a shorthand for four individual properties:

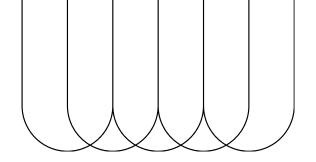**transition-property:** Specifies which CSS property to animate. Ex. width, color, background-color, all etc.

transition-duration: Defines the time taken for the transition (in seconds s or milliseconds ms).

transition-timing-function: Determines the acceleration pattern of the transition. ease, linear, ease-in, ease-out, ease-in-out etc.

transition-delay: Adds a delay before the transition starts.

Example:

```
a {
    transition-property: all ;
    transition-duration: .4s;
    transition-timing-function: ease-in;
    transition-delay: .2s;
}
```
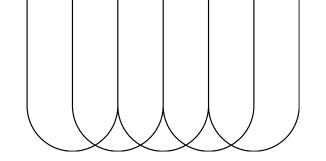
CSS Animation @keyframes

For more complex animations, the @keyframes rule defines the sequence of styles at different points during the animation.

```css
@keyframes moveBox {
    0% { transform: translateX(0); opacity: 1; }
    50% { transform: translateX(100px); opacity: 0.5; }
    100% { transform: translateX(0); opacity: 1; }
}
.box {
    width: 100px;
    height: 100px;
    background-color: green;
    animation: moveBox 2s ease-in-out infinite alternate; /* name duration timing-function delay  iteration-count direction*/
}
```

This animation moves the .box element 100px to the right and then back to its original position while also adjusting its opacity in a continuous loop.

CSS Animation @keyframes

Animation Properties

The animation property is a shorthand for seven individual properties:

animation-name: specifies the name of the @keyframes rule that defines the animation.

animation-duration: Makes the animation last for specified time

animation-delay: Adds a delay before the animation starts.
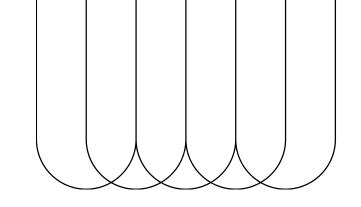
animation-iteration-count: Specifies how many times animation will loop eg. infinite, once, number

animation-direction: Specifies the direction of animation eg. normal/forward, reverse, alternate, alternate-reverse

animation-timing-function: Determines the acceleration pattern of the animation. ease, linear, ease-in, ease-out, ease-in-out etc.

animation-fill-mode: Specifies a style for the target element when the animation is not playing

THANK YOU

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