

# CSS Animations

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# WHAT IS CSS ANIMATION?

- ✖ CSS Animations allow elements to transition between styles.
- ✖ Create dynamic web experiences without JavaScript.
- ✖ Used for transitions, loaders, sliders, and more.



# TYPES OF CSS ANIMATION

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- ✖ CSS Transitions - Triggered by user actions (hover, focus).
- ✖ CSS Keyframes - Define animation steps for smooth control.



# CSS TRANSITION EXAMPLE

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```
✕ button {  
✕   background-color: blue;  
✕   transition: background-color 0.5s ease;  
✕ }  
✕ button:hover { background-color: green; }
```

# CSS KEYFRAMES EXAMPLE

- ✖ @keyframes slide {
- ✖ from { transform: translateX(0); }
- ✖ to { transform: translateX(100px); }
- ✖ }
- ✖ .box { animation: slide 2s ease-in-out infinite; }

# CSS ANIMATION PROPERTIES

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- ✕ animation-name, animation-duration
- ✕ animation-delay, animation-iteration-count
- ✕ animation-direction, animation-fill-mode
- ✕ animation-timing-function



# REAL WORLD USE CASES

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- ✖ Button hover effects
- ✖ Image sliders and carousels
- ✖ Loading spinners
- ✖ Modal fade-ins
- ✖ Progress bars



# ADVANTAGES OF CSS ANIMATIONS

- ✖ Simple and easy to implement
- ✖ Hardware accelerated performance
- ✖ No JavaScript required
- ✖ Reusable and smooth transitions

# DISADVANTAGES OF CSS ANIMATIONS

- ✗ Limited interaction compared to JS
- ✗ Not ideal for complex animation logic
- ✗ Can affect performance if overused

# USEFUL TOOLS

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- ✕ CodePen (live preview)
- ✕ Animate.css (prebuilt animations)
- ✕ MDN Web Docs
- ✕ CSS Tricks
- ✕ CanIUse.com for browser support



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**THANK YOU**