

Door Animation Research

1. Getting Started with Door Animation Coding

Step 1:

- **HTML Structure:** Understand how to create the base elements for a door (e.g., div containers representing left/right doors).
- **CSS Styling:** Learn to style the doors with properties like width, height, position, background-color, transform, and transition.
- **JavaScript Interaction:** Use JavaScript to add click or hover events that trigger animations (open/close).

2. CSS Door Elements

CSS:

- Use transform: rotateY() for 3D door swing effects.
- transition is key for smooth animations.
- Use perspective on parent containers to enable 3D rotation.
- overflow: hidden to keep animation inside boundaries.

YouTube Tutorials:

1. https://youtube.com/shorts/v_rcyqnKVYE?si=JrLf85oKNqG0bJKu
 - Shows a door opening.
 - Likely uses transform and transition to animate opening.
2. https://youtube.com/shorts/zbUg5DS9VAs?si=HBLle27_bVktDOLz
 - The animation effect.
 - Possibly includes background change or 3D door opening feel.

3. JavaScript Tutorials to Pair with CSS

JavaScript Topics:

- Function animateDoor('click', ...) to open/close the door.
- Use document.style.transform() or transform() to trigger CSS animations.
- Set up delays or toggle states using setTimeout() or boolean flags.

Learn From:

- W3Schools JavaScript Section - <https://www.w3schools.com/>
 - Especially sections on DOM manipulation and event handling.
- Try searching “JS door animation tutorial” on YouTube for longer guides.

Learning Plan:

1. **Watch** both YouTube Shorts and try to recreate the examples.
2. **Practice** creating basic door elements in HTML/CSS.
3. **Add JavaScript** to control the opening/closing logic.
4. **Experiment** with enhancements like sound effects, locking mechanisms, or hover-open features.

Video Implementation:

1. Download video with high quality
2. Use function to put time for the video capacity – setTimeout()
3. Put a constant in the code for the video
4. Use if function to play the video inside of the door