



04



Web Design and Development for Multimedia

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Week 8

Animation and Interactivity

04

Topic

- . CSS transitions and animations
- . JavaScript for dynamic effects
- . Introduction to interactive design

04

CSS transitions and animations

Text Editor



Example:

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```
.box {  
    background-color: red;  
    transition: background-color 0.5s ease-in-out;  
}  
  
.box:hover {  
    background-color: blue;  
}
```

Key properties for transitions include

CSS transitions and animations

Key properties for animations include:

- `animation-name`: Links the element to a defined `@keyframes` rule.
- `animation-duration`: Sets the length of one animation cycle.
- `animation-timing-function`: Controls the pace of the animation.
- `animation-delay`: Specifies a delay before the animation starts.
- `animation-iteration-count`: Determines how many times the animation repeats (e.g., `infinite`, a number).
- `animation-direction`: Controls whether the animation plays forward, backward, or alternates. 
- `animation-fill-mode`: Defines the styles applied to the element before and after the animation.

JavaScript for dynamic effects

Common dynamic effects

Text animations

Element movement



Shape Morphing

Dynamic data display

Interactive elements

JavaScript for dynamic effects

How to implement dynamic effects

Choose Approach

Include the library

Write the animation code

Trigger the animation



Introduction to interactive design

User-Centered Design

Feedback and Response

Consistency

Affordance

Constraints

Accessibility



04



Introduction to interactive design

The Five Dimensions of Interaction Design

Words

Visual Representations

Physical object or space

Time

Behavior



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Activity

Add animation or hover effects to a webpage

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04