

# **HTML Concepts**

#### Multimedia Elements

- <video>
- <input type="range">
- <canvas>
- <dialog>

#### Forms

- <input> types
- <select>
- Sending & retrieving form data

# SVG (Scalable Vector Graphics)

- <g>
- <style>
- class
- transform
- fill

### Accessibility Attributes

- autocomplete
- tabindex
- autofocus



# CSS Concepts

### Layout & Positioning

- Flexbox
- Grid
- fr unit
- Sticky positioning
- margin
- perspective
- white-space
- translateZ()

# Colors & Theming

- Dark mode
- prefers-color-scheme
- Color contrast
- prefers-contrast
- var()
- radial-gradient()
- conic-gradient()
- !important

# Animations & Effects

- Using CSS transitions
- Timing function customization
- prefers-reduced-motion
- CSS Loaders
- Rellax.js (parallax effect)



# JavaScript Concepts (I)

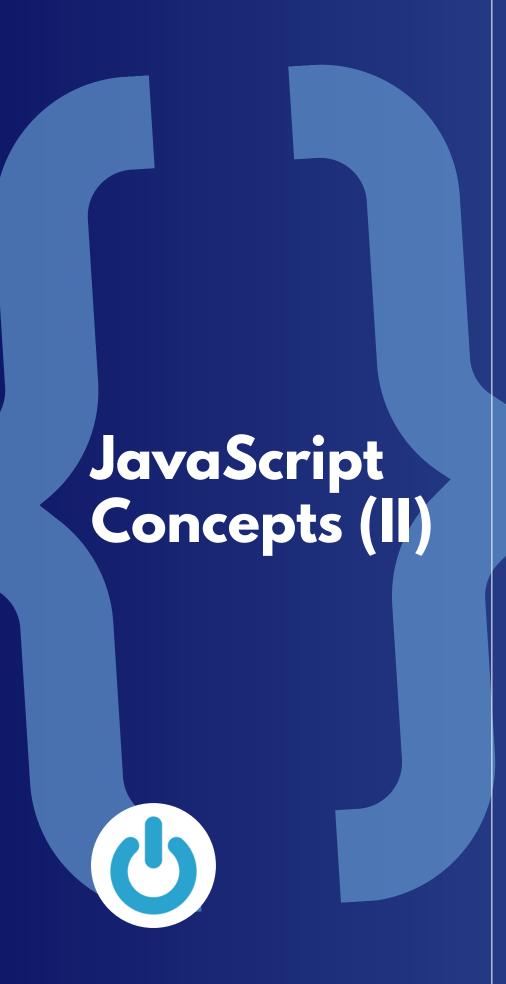
### Language Fundamentals

- switch statement
- do...while statement
- Object initializer syntax
- indexOf() method
- JSON.parse() method
- catch() method

#### Events & DOM Interaction

- addEventListener() method
- removeEventListener() method
- click method
- blur
- loadedmetadata
- timeupdate
- voiceschanged
- boundary
- onend
- MouseEvent





#### Form and UI APIs

- alert() method
- sessionStorage property
- DocumentFragment
- Fullscreen API

# Speech & Audio

- getVoices() method
- cancel() method (SpeechSynthesis)
- volume property
- muted property

#### Numbers & Math

- Number() function
- isNaN() function
- Math.random() method
- Intl.NumberFormat object

#### Canvas API & Data Visualization

- fillText() method (Canvas API)
- Chart.js

# From Learning to Building

# Building Beyond Challenges

- 1. Moving from daily challenges and guided hints to self-driven exploration
- 2. Strategies for features you've never built before: search, adapt, and experiment
- 3. Combining HTML, CSS, and JavaScript to build unique solutions

# Tackling Real-World Scenarios

- 1. Responsive design: adapting to all screen sizes
- 2. Handling interactivity & data: event delegation, form validation, accessibility



- Keep your code readable
- Add comments
- Refactor regularly to improve clarity

Good habits matter — even when working solo





# Your Personal Coding Journey

Your Code, Your Story



## **Identifying Your Niche**

- What kind of problems excite you most?
- Are you drawn to front-end, or curious about other areas?

#### The Power of Persistence

- Reflect on challenges overcome
- How consistency built confidence and adaptability
- Evolving mindset: from learner to independent creator

What's your next growth frontier?

