

HTML Concepts

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1	Custom data-* Attributes: Storing custom data directly on HTML elements (e.g., data-target).
2	Canvas API (<canvas>): A drawable region in HTML, used for graphics, animations, and image manipulation.</canvas>
3	Metadata (<head>, <title>): Defining document metadata, such as the page title that appears in the browser tab.</th></tr><tr><th>4</th><th>Image Fallbacks (onerror attribute): Handling cases where an image fails to load.</th></tr><tr><th></th><th></th></tr></tbody></table></title></head>

Line Breaks (

y): Forcing a line break within text.

CSS Concepts

Styling & Layout

- box-shadow: Adding shadow effects to an element's frame.
- visibility: Showing or hiding an element without changing the layout.
- backdrop-filter: Applying graphical effects like blur to the area behind an element.
- **cursor**: Specifying the mouse cursor to be displayed when pointing over an element.

Animations & Transitions

- **@keyframes**: Defining the stages and styles of a CSS animation sequence.
- animation-duration & animation-delay: Controlling the timing of @keyframes animations.
- calc(): Performing calculations to determine CSS property values.

Selectors & Pseudo-elements

- ::before & ::after: Creating pseudo-elements that can be styled independently of their parent element.
- Attribute Selectors (*e.g.*, [href^='#']): Selecting elements based on the presence or value of an attribute.



JavaScript Concepts (I)

Language Fundamentals

- Date Object: Working with dates and times (e.g., new Date(), getFullYear(), getHours()).
- Math Object: Performing mathematical operations (e.g., Math.round()).
- Set Object: Storing unique values of any type.
- Unary Plus Operator (+): A concise way to convert a value to a number.
- try...catch: Handling errors gracefully without stopping script execution.
- Number.toFixed(): Formatting a number to a specified number of decimal places.

DOM Manipulation

- Element.parentNode: Accessing the direct parent of an element.
- Element.getAttribute(): Retrieving the value of a specified attribute on an element.
- document.createElement() & Node.appendChild(): Creating new DOM elements and adding them to the document.
- Element.scrollIntoView(): Scrolling a page so that an element is visible to the user.
- HTMLElement.offsetTop & window.scrollY: Getting an element's position relative to the top of the document and the current scroll position.



JavaScript Concepts (II)

Timers & Asynchronous JavaScript

- clearInterval(): Stopping a timer previously set with setInterval().
- Throttling: A technique to limit how often a function can be executed, improving performance for frequent events like scrolling.

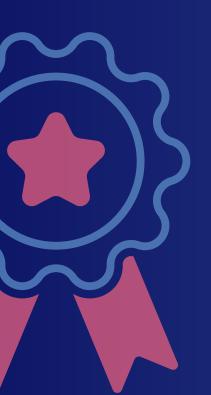
Events

- **KeyboardEvent Object**: Accessing properties of a key press event (e.g., event.key, event.code).
- Mouse Events (mousedown, mouseup, mousemove, mouseover, mouseout): Handling various mouse interactions.
- scroll Event: Detecting when the user scrolls the page.

Browser APIs

- localStorage API (setItem, getItem): Storing key-value pairs in the browser, persisting data across sessions.
- Drag and Drop API: Implementing native drag-and-drop functionality for elements.
- FileReader API: Reading the contents of files stored on the user's computer.
- Canvas API (scripting): Drawing graphics via JavaScript (e.g., getContext("2d"), moveTo(), lineTo(), stroke()).
- history.pushState(): Manipulating the browser session history.

Reviewing Your Progress



What's Clicking?

- Celebrate your progress which concepts now feel intuitive?
- Share a screenshot or video of your favorite project show your growth!

What's Still a Blocker?

Revisit your Day 10 Challenge List:

- What's still causing headaches?
- Are new, advanced challenges appearing?



- 1. Identify one major blocker
- 2. Dedicate focused time to practicing it
- 3. Repeat until it clicks



Had an "aha" moment? Share it with the community!





Expanding Your Developer Toolbox

Find, Save, and Use Resources Like a Pro

Track helpful project resources:

- Icons, images, sound effects, color palettes
- Documentation beyond MDN (e.g., CSS-Tricks, Stack Overflow, GitHub issues)

Your ability to troubleshoot and research is your superpower.

The deeper you go, the more essential resource-hunting becomes:

- Unlock solutions faster
- Create project variations
- Build independence as a developer

Small skills compound over time — they build confidence, problem-solving ability, and autonomy.

