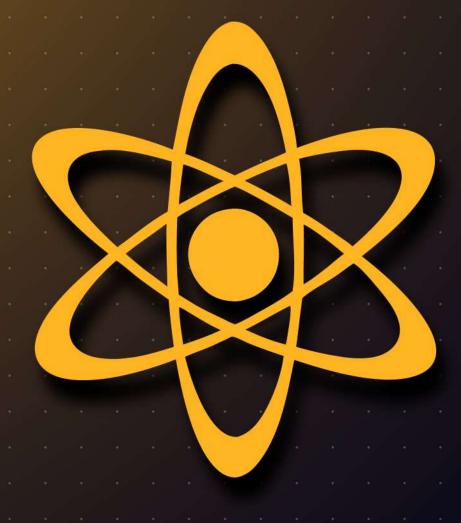
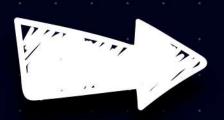
### JSX vs HTML



Everything You Need to Know as a Developer





### What is JSX?

JSX stands for JavaScript XML, used in React to write UI components. Combines HTML-like syntax with JavaScript logic. Looks like HTML, but it's more powerful because it supports dynamic content and interactions.





# 2 How is JSX Different from HTML?

HTML: A markup language for static structure.

JSX: A syntax inside JavaScript,

allowing dynamic UI rendering.

JSX is compiled to JavaScript,

not rendered directly like HTML.





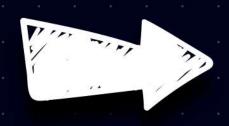
#### DAY 1 React Js

# Example 1 Dynamic Data with JSX

**Problem:** Displaying a list of items (e.g., products) from a dynamic data source.

HTML Alternative: Manual DOM manipulation via JavaScript (tedious) or use of templating engines (e.g., EJS).







### Advantages of JSX



- ·Dynamic: Easily display data that updates in real-time.
- •Cleaner code: Embed JavaScript logic inside your HTML-like structure.
- •Reusable Components: Write once, use across your app (React components).





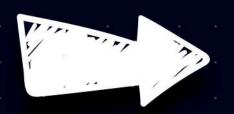
### 5

## **Example 2:**Conditional Rendering in JSX

Problem: Displaying different content based on user authentication

HTML Alternative: No direct support; would require complex JavaScript manipulation or templating.







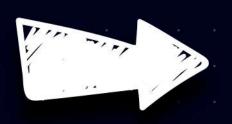
#### DAY1 React Js

## Disadvantages Limitations of JSX



- Learning Curve: Requires knowledge of both JavaScript and React.
- Overhead: Not suitable for simple, static websites.



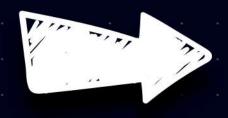


### When to Use JSX



- Dynamic, interactive apps: Ideal for React projects where components and data change frequently.
- Reusable Components: When you want to build modular, reusable pieces of UI.
- React Projects: JSX is deeply integrated into React, making development smoother.

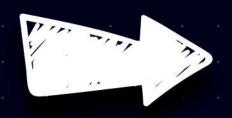




### When NOT to Use JSX

- - Static websites: If you're building a static site with minimal interaction, HTML is more than enough.
  - Without React: JSX is primarily designed for React, so it doesn't make sense to use it elsewhere.
  - Server-Side Rendering: Consider frameworks like
     Next.js if SEO is a major concern.









### JSX vs HTML: The Key Differences Recap



JSX: Integrates directly with JavaScript, supporting dynamic data and logic. Needs compilation.

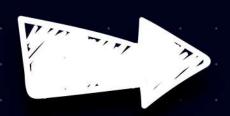
HTML: Static and suitable for simple,

non-interactive pages. No compilation needed.

JSX Wins:For dynamic UIs and reusable components.

HTML Wins: For simple, static content.





### Conclusion

JSX is powerful for dynamic UIs, but it's not always necessary.

Question: When do you prefer using JSX over HTML?

Share your thoughts in the comments!



