

# Static HTML vs Dynamic JSX!

{JS} JavaScript Mastery



# Introduction to JSX

JSX (JavaScript XML) is a **syntax extension for JavaScript**, commonly used with React.

It makes it possible for us to write HTML-like markup **directly within JavaScript code**.

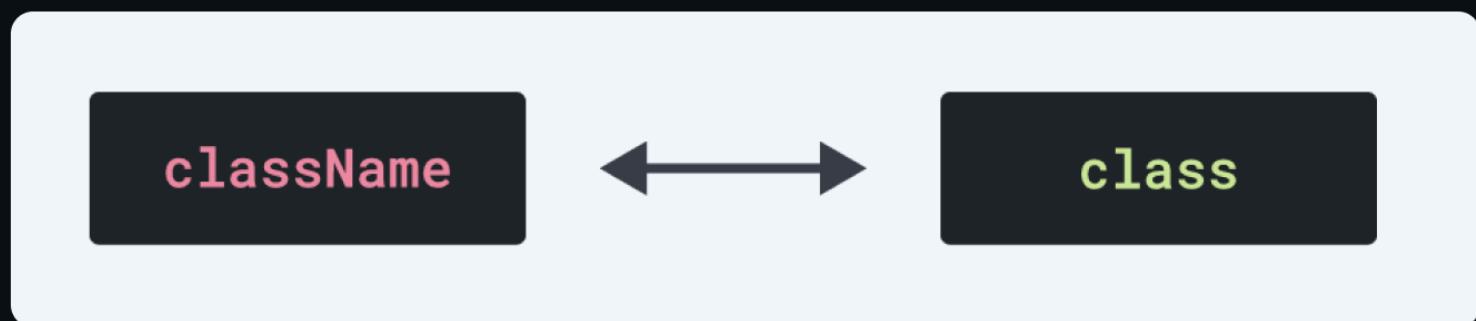
```
return (  
  <div className="greetings">  
    <h1> Hello, {prop.name} </h1>  
  </div>  
)
```

# Some Syntax Differences

HTML uses **class** for CSS, while JSX uses **className**.

JSX requires self-closing tags (e.g. `<img />`) and camelCase properties (e.g. `onClick`).

In JSX, use **htmlFor** instead of HTML's **for** (reserved keyword) to link labels and inputs.



# JavaScript Integration

JSX seamlessly embeds JavaScript expressions using curly braces (`{}`), enabling dynamic content (e.g. `{userName}`).

In HTML, JavaScript requires a separate `<script>` tag or inline event handlers, limiting direct integration.

```
return (
  <div>
    <h1> Hello, {prop.name} </h1>
    <p> {3 + 7} is ten </p>
  </div>
)
```

# Components vs. Elements

JSX supports **custom components** (e.g. `<Button />`), which can encapsulate logic and markup.

HTML relies on predefined **elements** (e.g. `<div>`), lacking native reusability without JavaScript frameworks.

```
import React from 'react'

const Example = () => {

  return <div>Hello World! </div>

}
```

# Compilation Step

JSX must be **compiled into standard JavaScript** (via tools such as Babel) before browsers can render it.

HTML is **parsed directly by browsers** without extra steps, making it simpler for **static content**.



# Level up your JSX game!

- ✓ Use React Fragments where possible (`<>...</>`) to avoid unnecessary DOM nodes for better performance
- ✓ Use `map()` for dynamic lists (don't forget the `key` prop!)
- ✓ Extract complex logic into separate functions





🎓 The wait is over

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