

## 2 What is JSX?

→ JSX (JavaScript XML) is a syntax extension for JavaScript commonly used with React to describe what the UI should look like. It allows you to write HTML-like code directly within JavaScript, making your components more readable & expressive. Browsers don't understand JSX natively, tools like Babel transpile JSX into regular JavaScript. `React.createElement()`

- Why Use JSX?

- Makes UI code more readable & declarative.
- Looks similar to HTML but is more powerful with JS expressions.
- Helps visualize the component structure easily.

- Example Implementation - ~~JSX~~

// Example: JSX Component (in a React environment)

```
import React from 'react';
```

```
// This is a functional component using JSX
```



```
function WelcomeMessage ({ name }) {  
  return (  
    <div>  
      <h1> Welcome, {name}! </h1>  
      <p> This is a JSX component in React. </p>  
    </div>  
  );  
}
```

// Main App Component

```
function App() {  
  return (  
    <div>  
      <WelcomeMessage name="Alice"/>  
      <WelcomeMessage name="Bob"/>  
    </div>  
  );  
}
```

export default App;