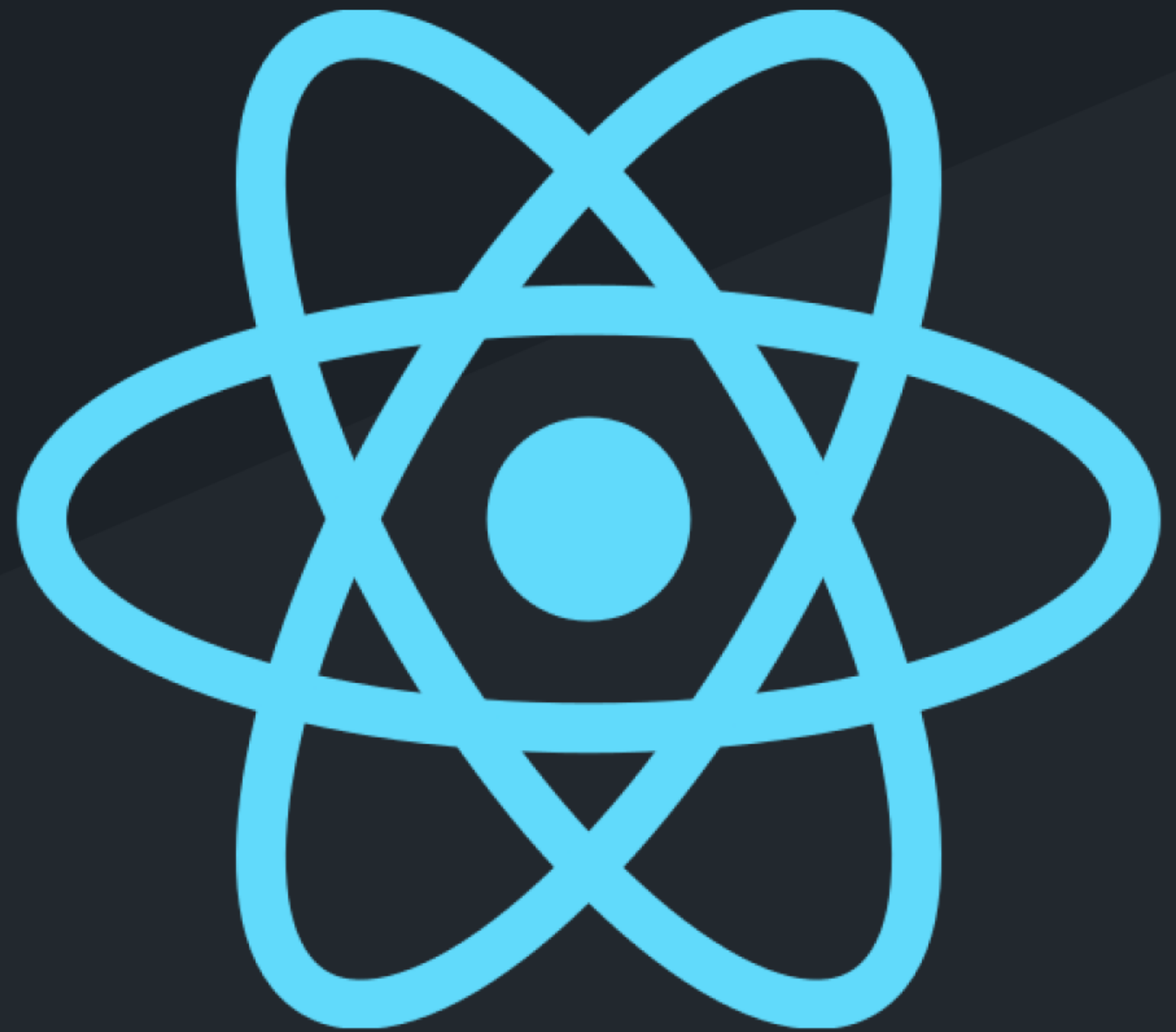


About JSX

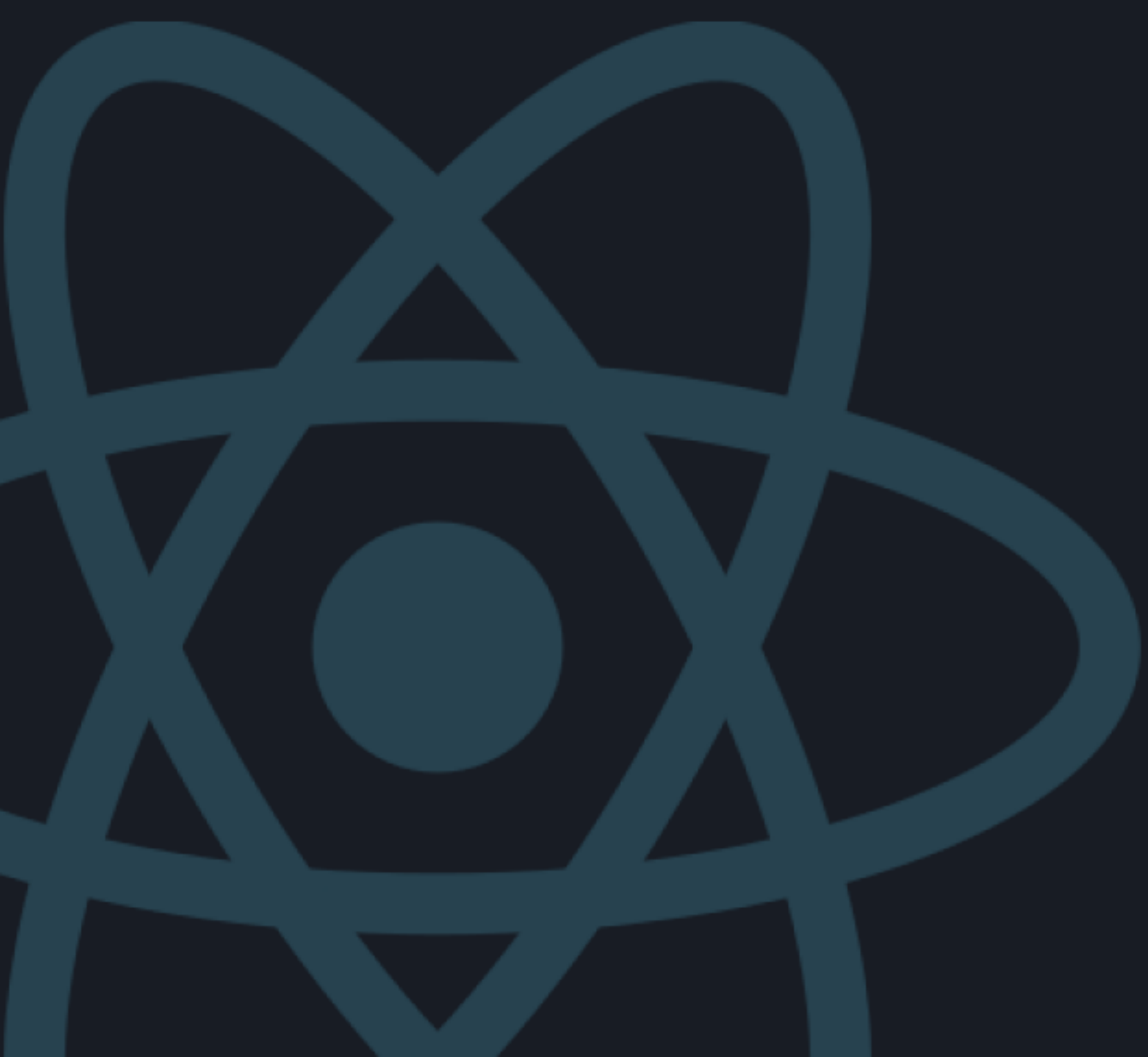
In Detail



Gagan Saini

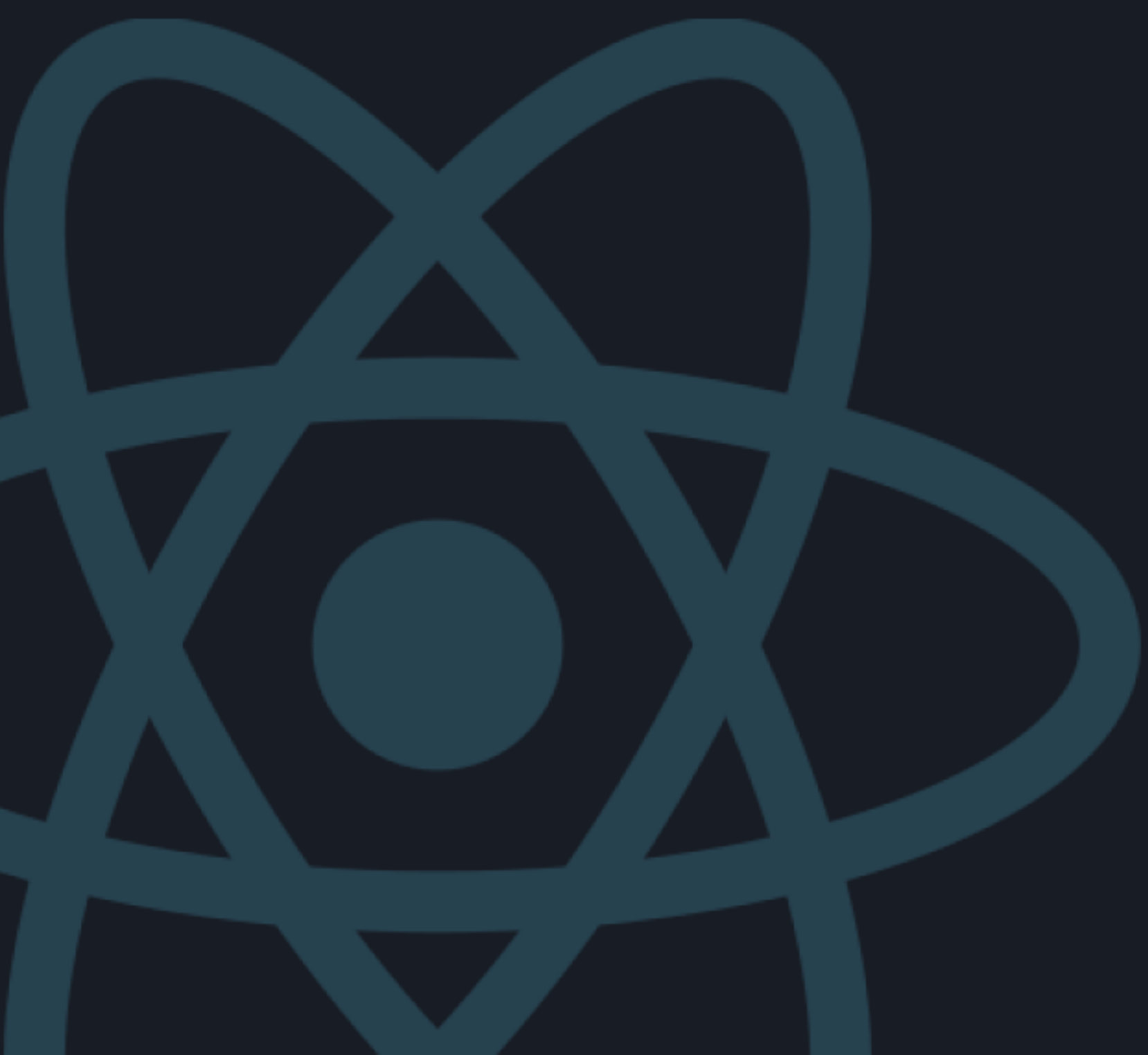
JSX (JavaScript XML)!

JSX is a syntax extension that allows us to write **HTML-like code** directly within JavaScript. Imagine crafting your UI components using familiar **HTML tags** and **JavaScript expressions** in a single file! JSX brings this dream to life, enhancing the readability and maintainability of our React applications.



Use cases of JSX

- Declarative UI
- JavaScript and Markup Integration
- Component Composition
- Conditional Rendering
- Mapping and Iteration
- Event Handling
- Seamless Integration with React
- Static Type Checking

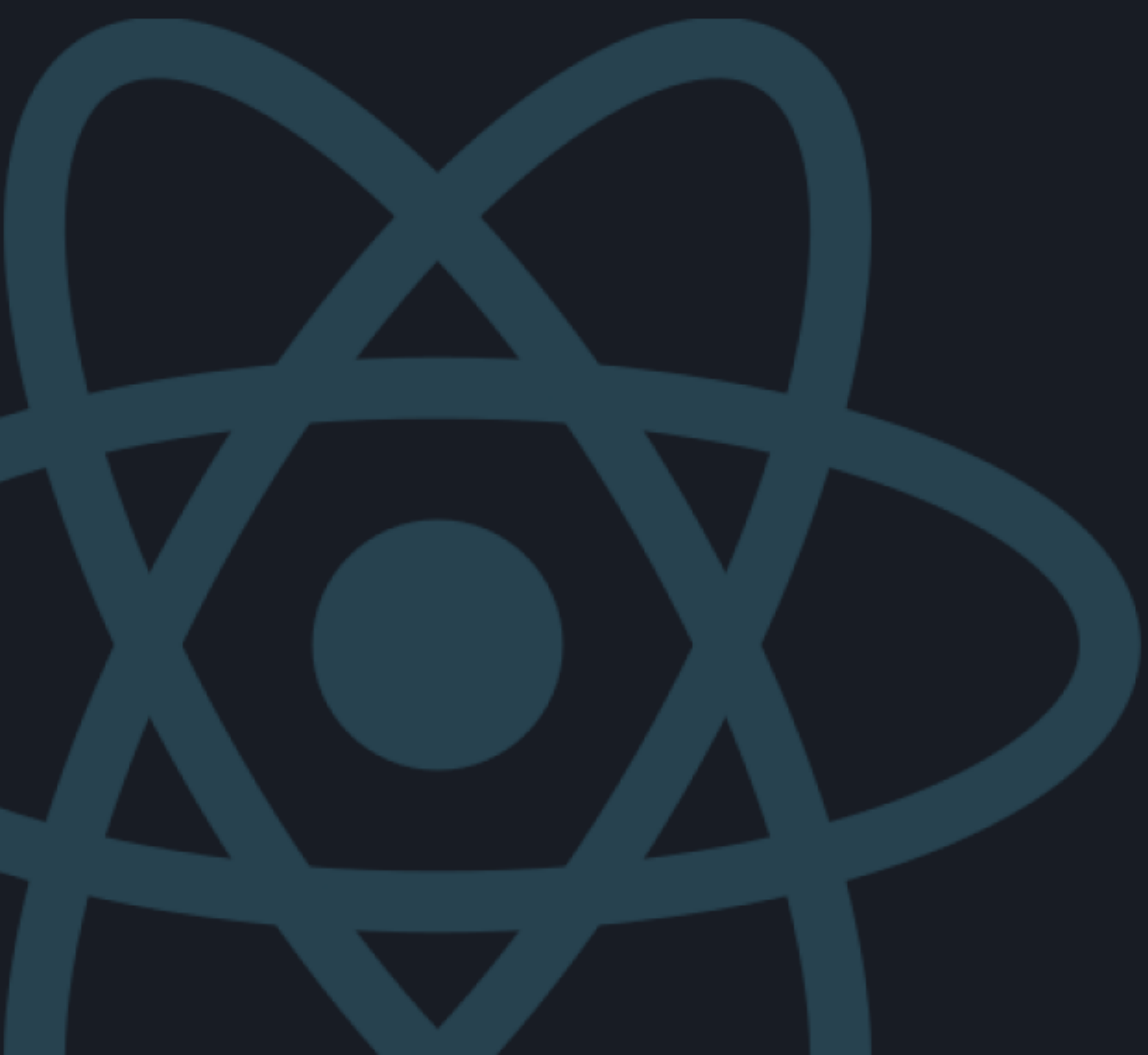


Declarative UI

JSX enables developers to express the UI components in a declarative manner, which closely resembles the final output. This makes the code more readable and understandable.

JavaScript & Markup Integration

JSX seamlessly integrates JavaScript logic with markup, allowing you to embed expressions and variables directly within the markup.

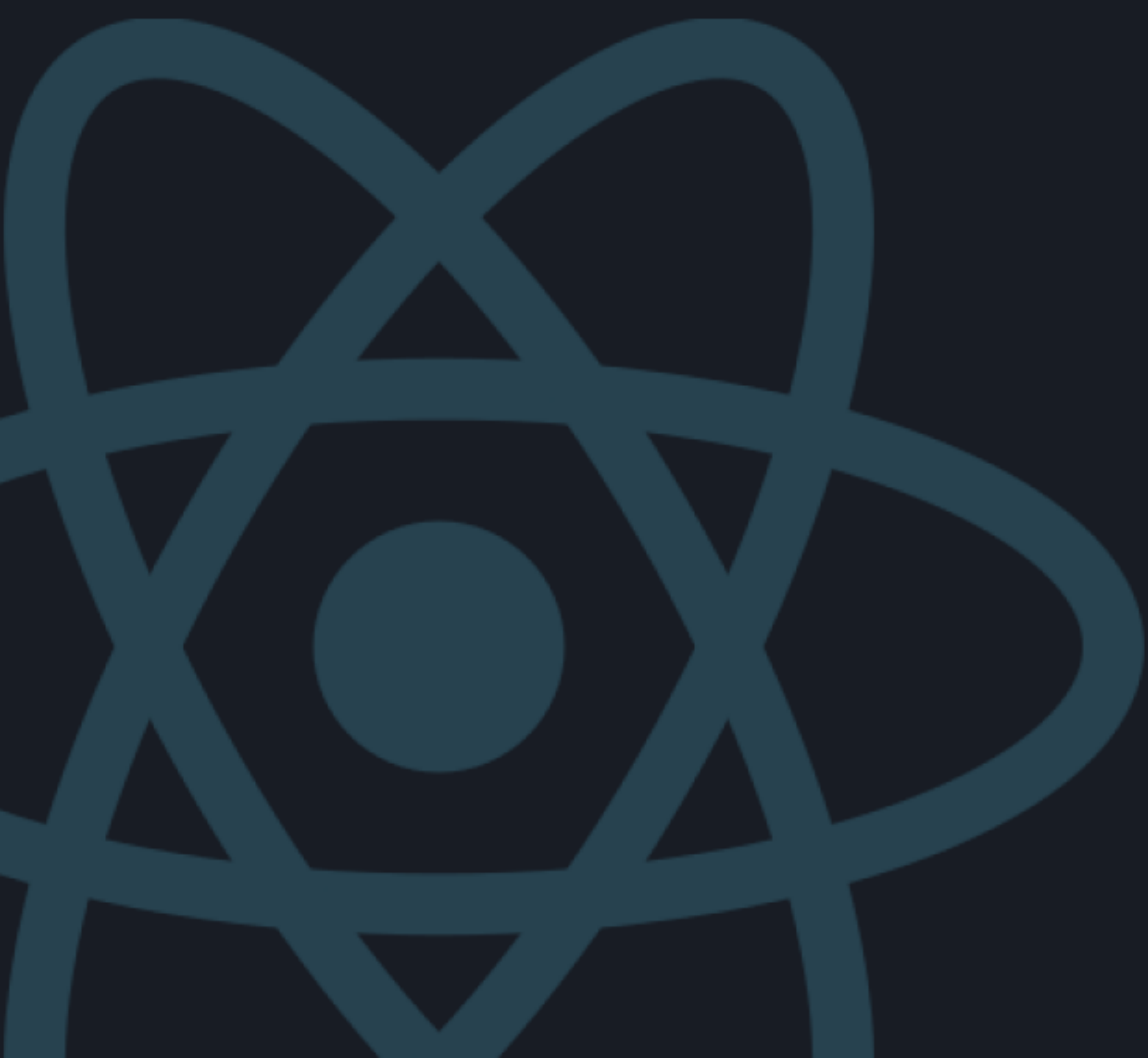


Component Composition

JSX allows you to compose components and create complex UI structures by nesting components inside each other.

Conditional Rendering

JSX makes it easy to perform conditional rendering, where you can conditionally display different elements based on certain conditions.



Mapping & Iteration

JSX facilitates rendering lists of data by using map or other array iteration methods (from JS) directly within the JSX code.

Event Handling

JSX provides a straightforward way to handle events like clicks, inputs, and other user interactions by using familiar HTML event attributes.



Seamless Integration with React

JSX is the recommended way to write React components and is fully supported by various tools and libraries within the React ecosystem.

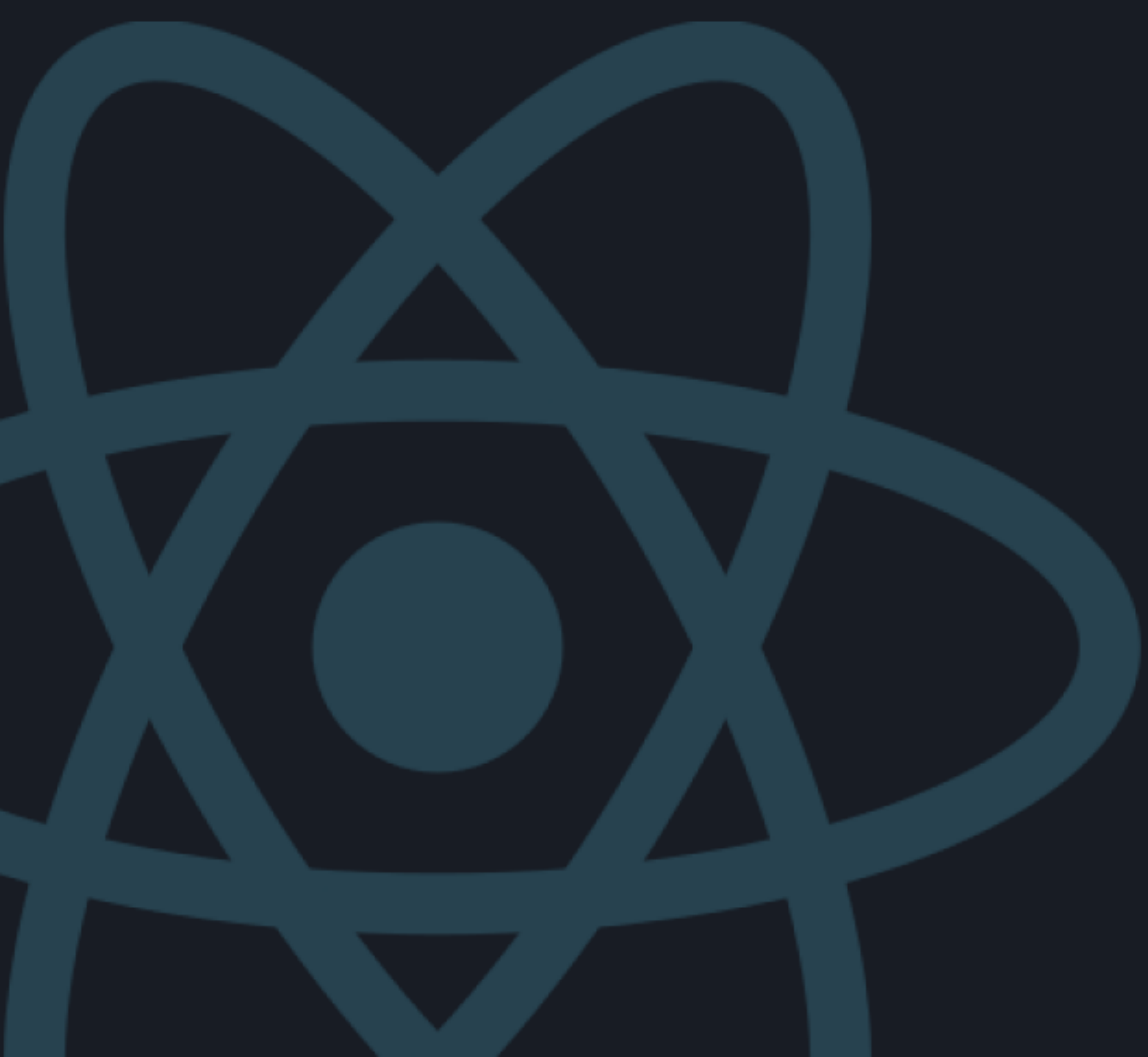
Static Type Checking

When used in conjunction with TypeScript or Flow, JSX provides static type checking, improving code quality and reducing potential runtime errors.



Important !

While JSX is not strictly required to build React applications, it has become an integral part of the React development workflow due to its readability, expressiveness, and ease of use. It allows developers to focus on building UI components with the same syntax they would use for regular HTML, making React code more accessible and maintainable.



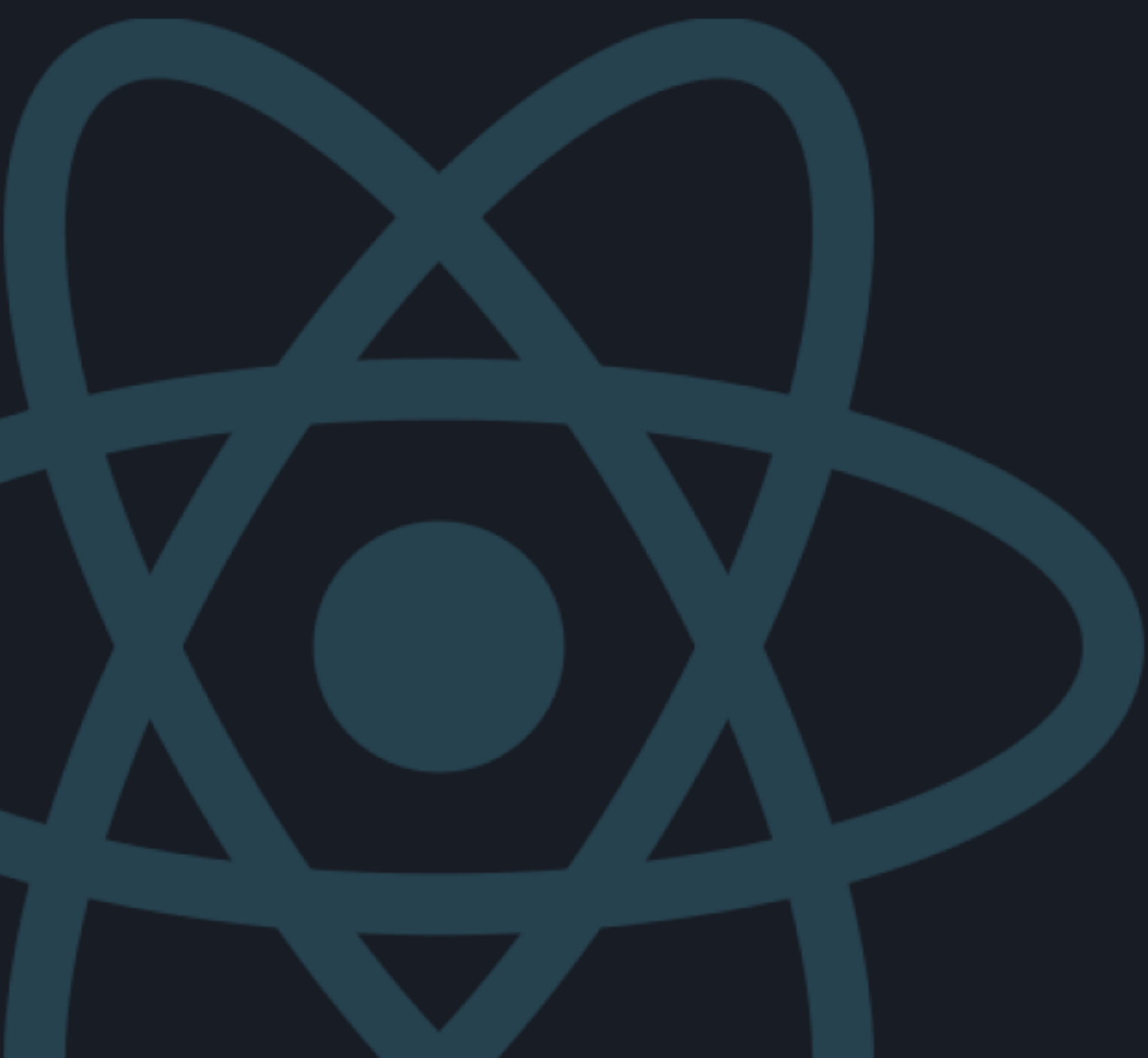
Example Code



```
import React from "react";

const Component = () => {
  return (
    <div>
      <h1>React</h1>
      <button>Learn React!</button>
    </div>
  );
};

export default Component;
```





@Gagan Saini

Web Developer

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