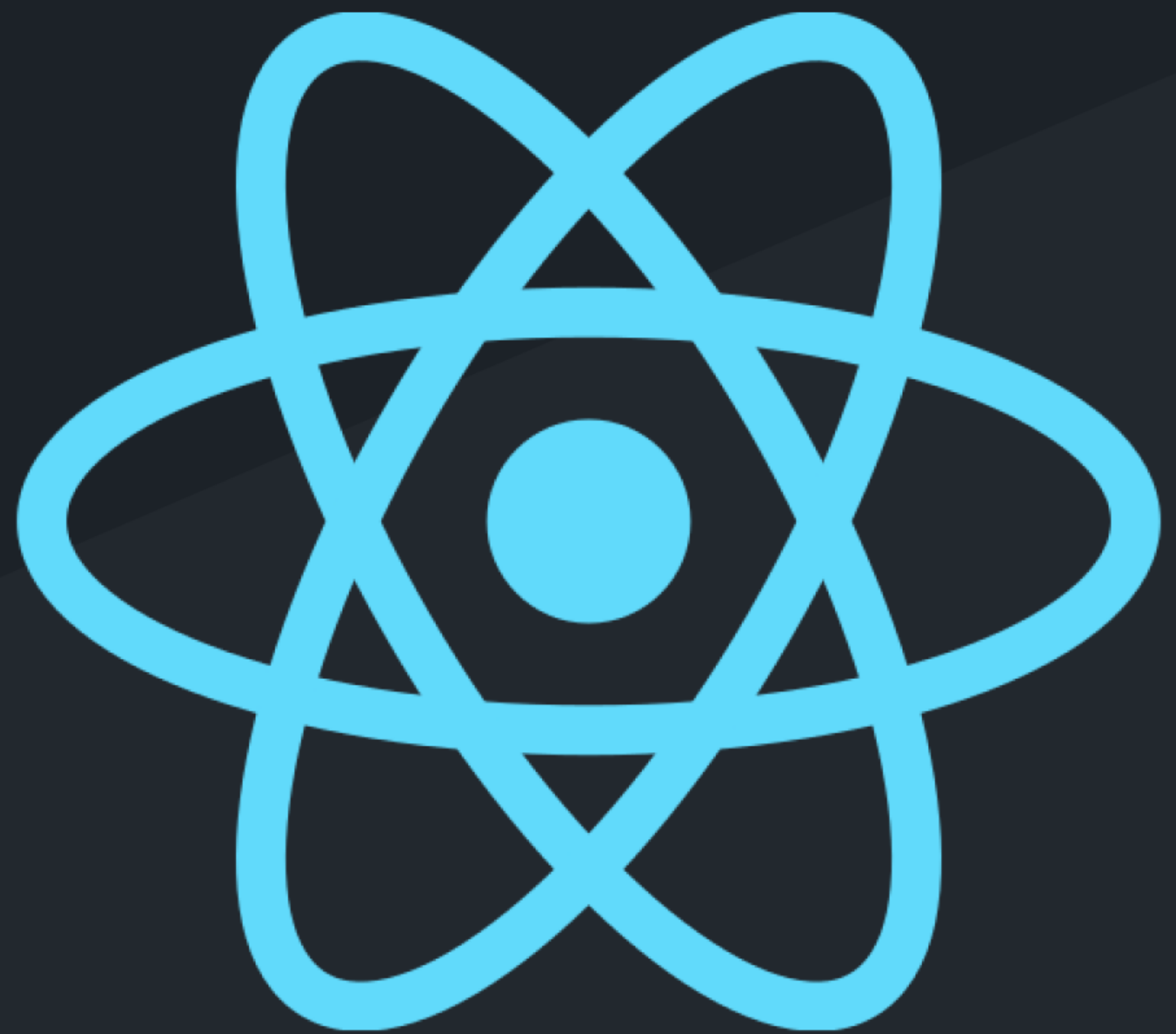


`<>React Fragment</>`

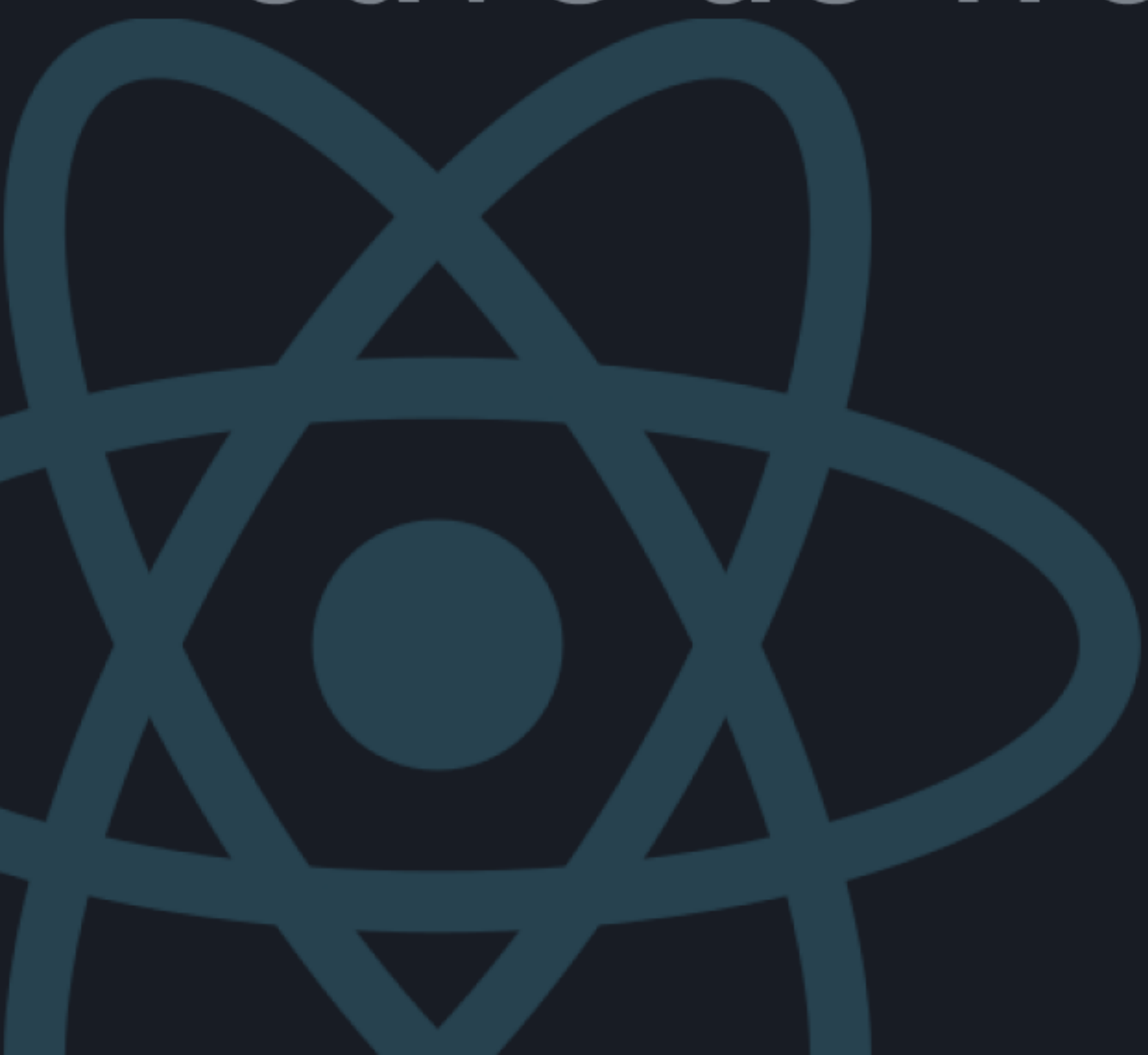
In Detail



Gagan Saini

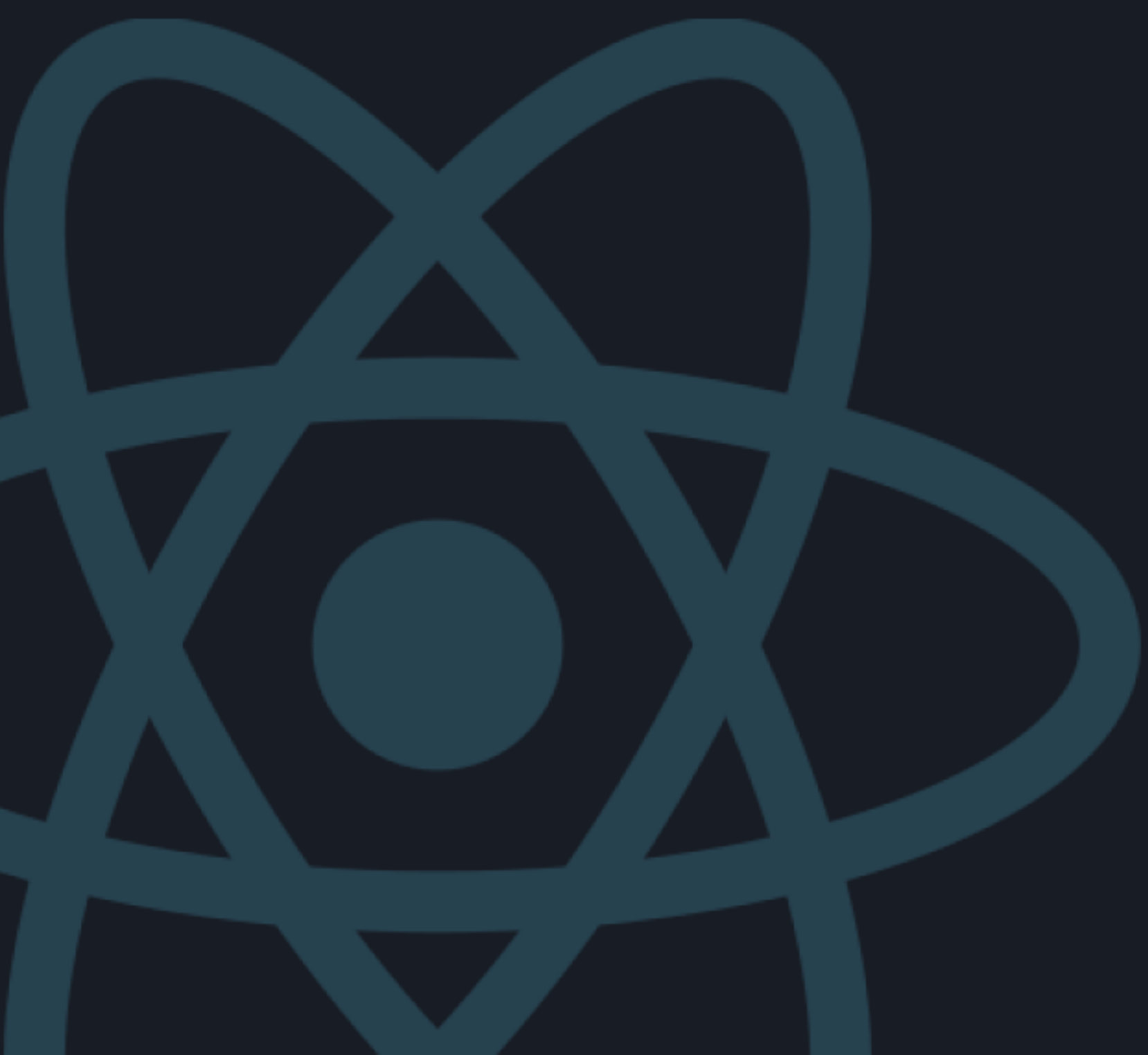
What is React Fragment

React Fragments are a lightweight and handy tool that enables us to group multiple elements together without introducing an extra DOM element. They act as a "virtual container," offering a cleaner way to structure our components without cluttering the rendered output. And save us from unnecessary nesting.



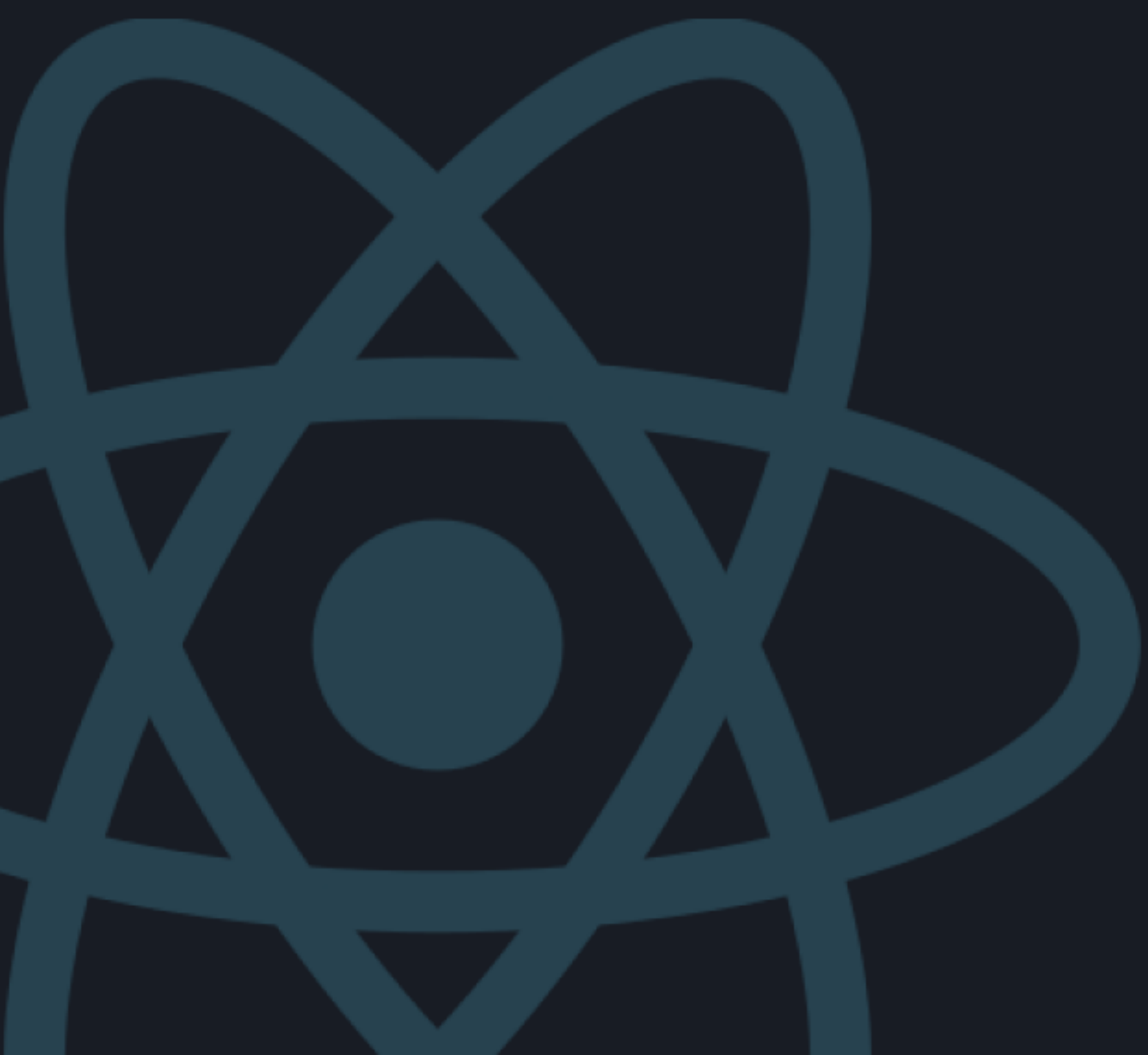
Use cases of React Fragment

- Mapping Over Lists
- Return Multiple Components
- Conditional Rendering



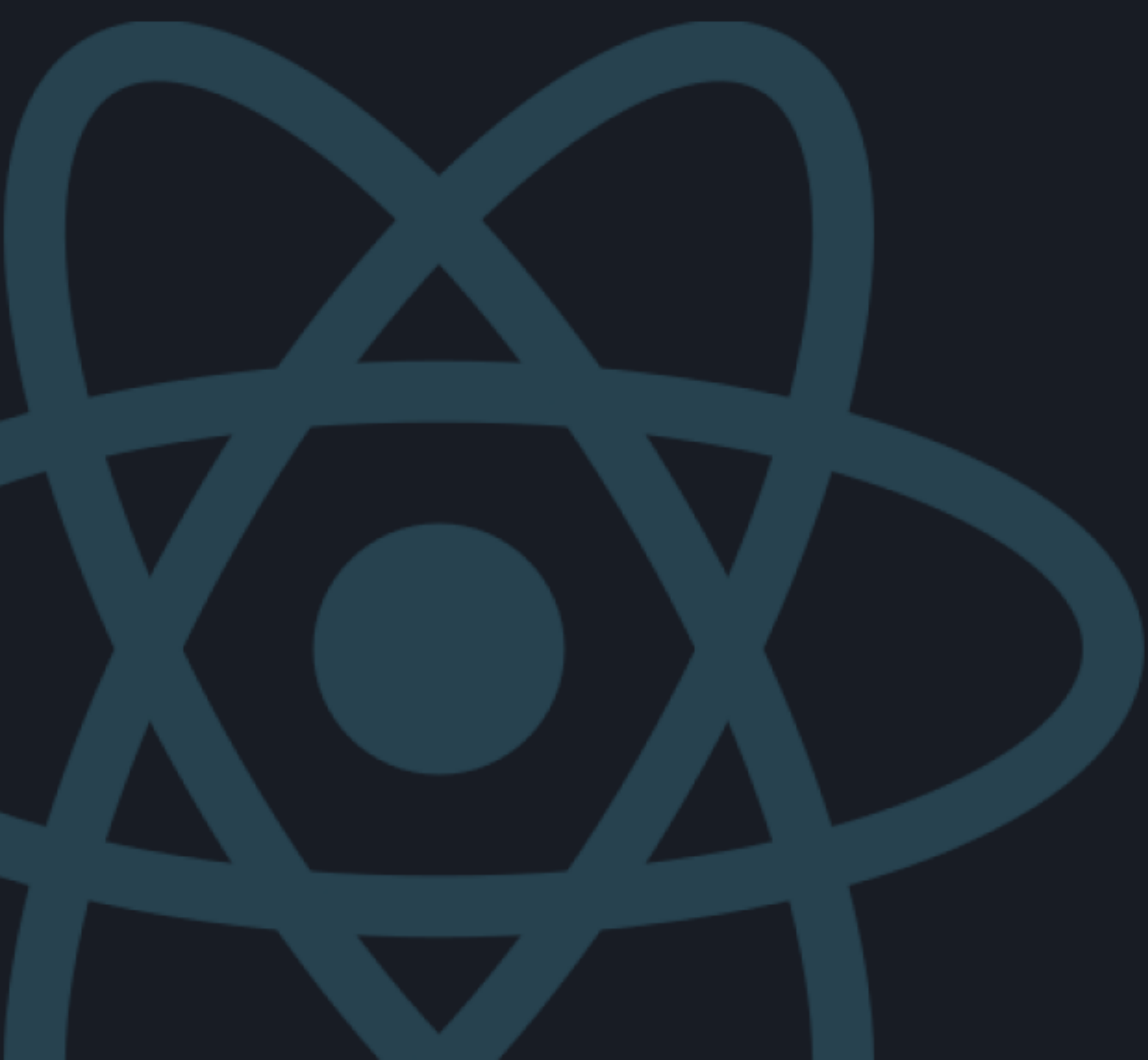
Mapping Over Lists

When rendering lists using `map`,
Fragments prevent us from adding
redundant wrapper elements to each
item. And keep our code lean and
efficient!



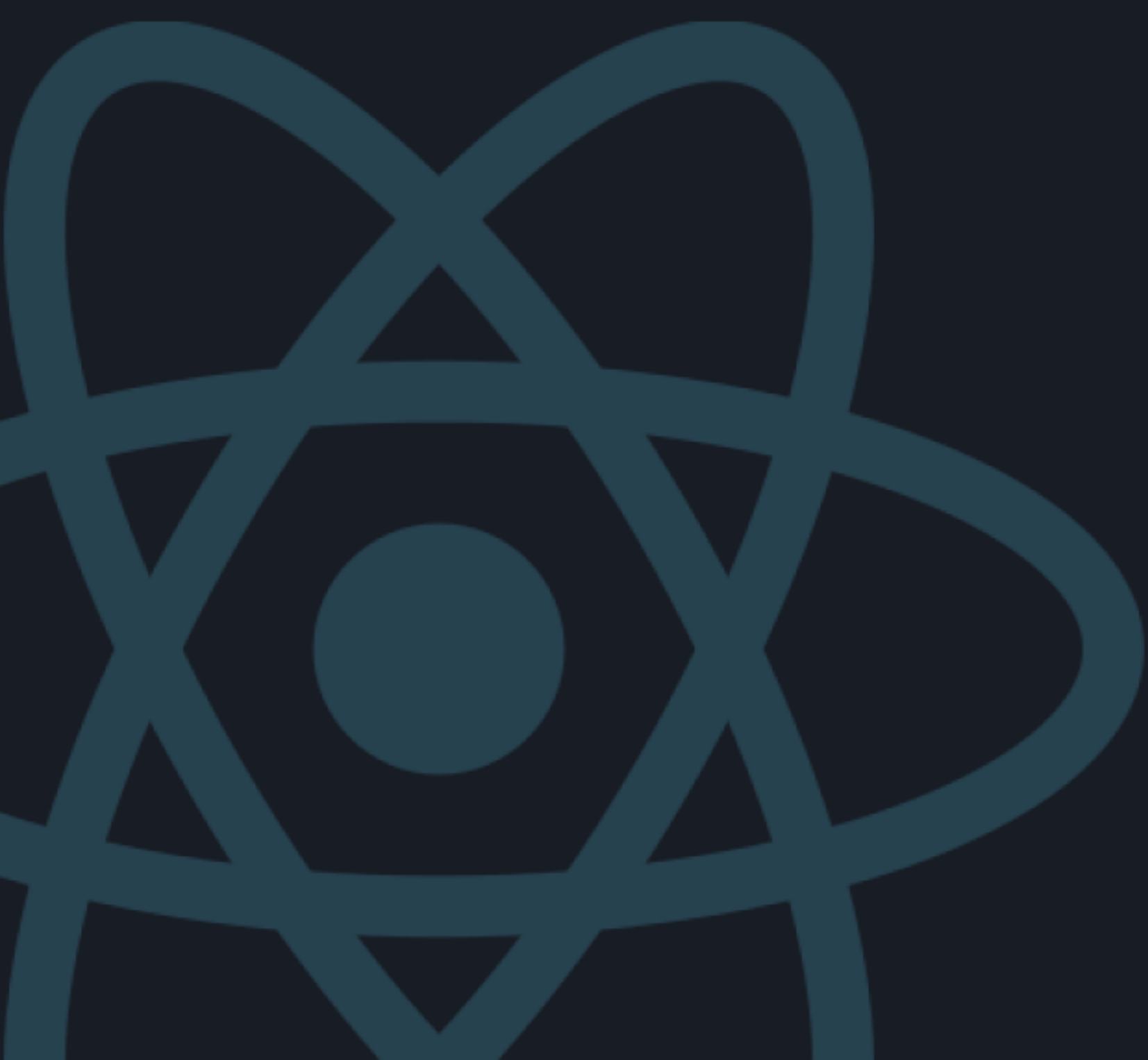
Return Multiple Components

When returning multiple components from a higher-order component or custom hook, Fragments allow us to do so without the need for unnecessary container elements.



Conditional Rendering

Fragments shine in conditional rendering scenarios, helping us group different UI elements without adding extra nodes. This keeps our logic clean and robust!



Syntax

Import from react.

`<React.Fragment></React.Fragment>`



```
import React from "react";

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

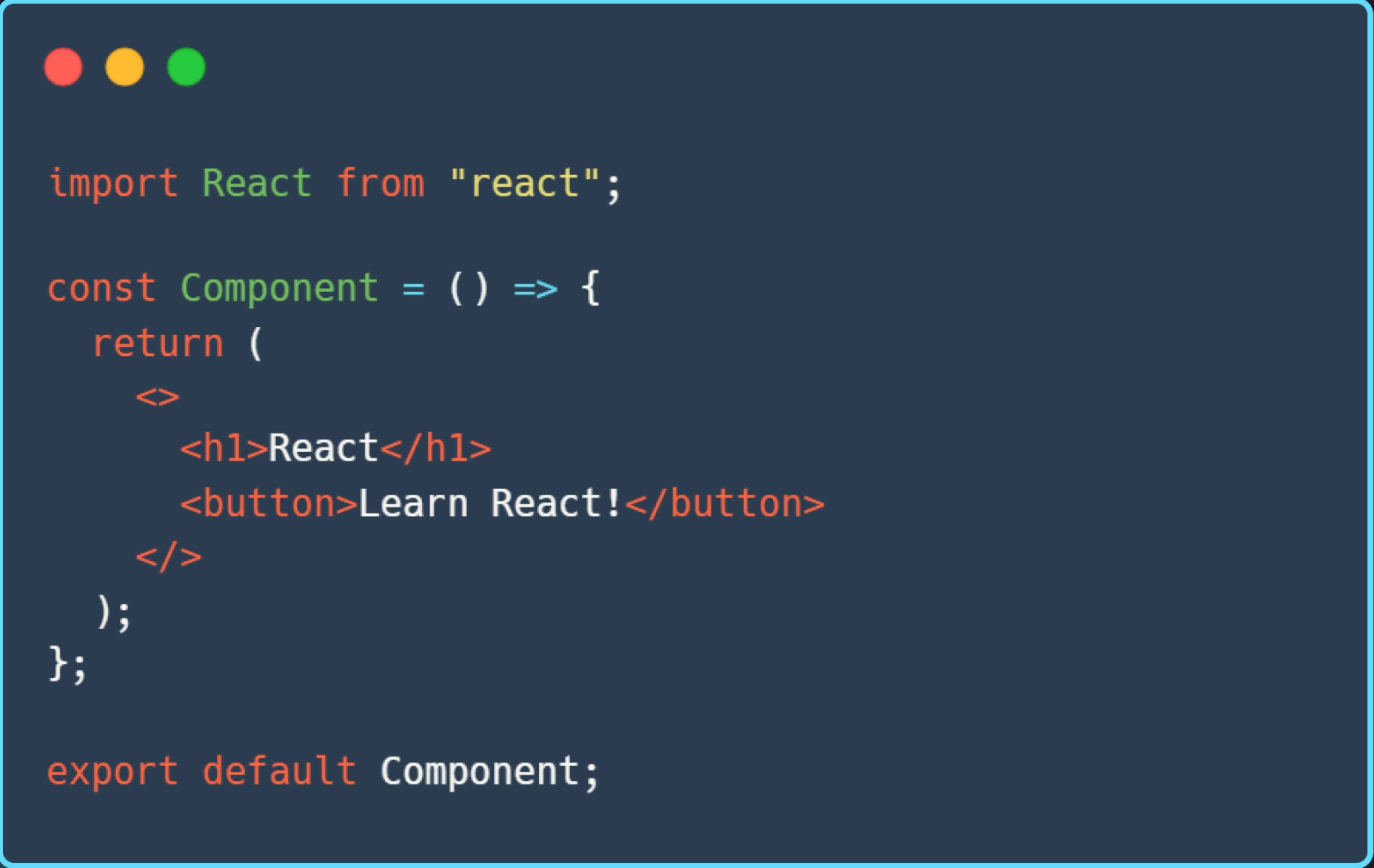
export default Component;
```



Syntax

From react 16.2.0, we have with a shorthand syntax for Fragments.

`<></>`



```
import React from "react";

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

export default Component;
```





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