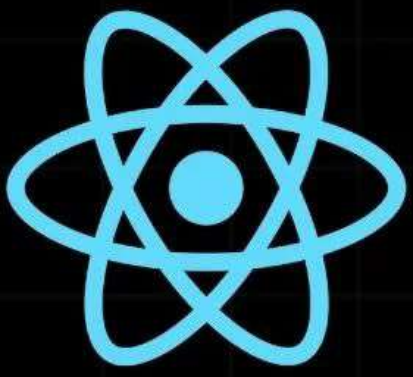
React
Tips and Tricks



Avoid Multiple Wrapper Elements

Use React Fragments (<>) to avoid unnecessary div wrappers

```
<div>
  <ComponentA />
  <ComponentB />
</div>
```

Instead of this ❌

```
<>
  <ComponentA />
  <ComponentB />
</>
```

Do this ✅

Simplify Conditional Rendering

Use React Fragments (<>) to avoid unnecessary div wrappers

```
if (isLoggedIn) {
  return <Dashboard />;
} else {
  return <LoginPage />;
}
```

Instead of this ❌

```
{isLoggedIn ? <Dashboard /> : <LoginPage />}
```

Do this ✅

Default Props

Define default values for your props right in the function parameters

```
function Card({ text, small }) {
  let btnText = text || "Click here";
  let isSmall = small || false;
  // ...
}
```

Instead of this ❌

```
function Card({ text = "Click here",
small = false }) {
  // ...
}
```

Do this ✅

Self-Closing Tags

In React, self-closing tags are a cleaner and more concise way to write elements

```
<MyComponent></MyComponent>
```

Instead of this ❌

```
<MyComponent />
```

Do this ✅

Use key Prop in Lists

Break down largeAlways provide a unique key prop when rendering lists to help React track items efficiently. components into smaller, reusable ones for better maintainability.

```
{items.map((item) => <li>{item}</li>)}
```

Instead of this ❌

```
{items.map((item, index) => <li key={index}>
{item}</li>)}
```

Do this ✅

Use useCallback for Stable Functions

Use useCallback to memoize functions and prevent unnecessary re-renders

```
function handleClick() {
  console.log('Clicked!');
}
```

Instead of this ❌

```
const handleClick = useCallback(() => {
  console.log('Clicked!');
}, []);
```

Do this ✅

Use export default for Main Components

Use export default for the main component in a file to simplify imports elsewhere in your project.

```
export { App };
```

Instead of this ❌

```
export default App;
```

Do this ✅

Avoid Inline Styles

Define styles in a constant outside the component to keep your JSX cleaner and more organized.

```
<div style={{ color: 'red',
fontSize: '20px' }}>Hello</div>
```

Instead of this ❌

```
const styles = { color: 'red',
fontSize: '20px' };
<div style={styles}>Hello</div>
```

Do this ✅