**🎨 Styling in React**

React supports several ways to style components. Let’s look at the most common and practical ones:

**📁 Project Structure (Assume created with create-react-app)**

cpp

CopyEdit

my-app/

├── public/

├── src/

│ ├── components/

│ │ ├── Welcome.js

│ │ └── ...

│ ├── App.js

│ ├── App.css

│ ├── index.js

│ └── ...

**✅ Where to Write Each Styling Example**

**🔹 1. Inline Styling**

✅ **File to edit:**  
src/App.js

📄 App.js:

const headingStyle = {

color: 'blue',

fontSize: '24px',

};

function App() {

return <h1 style={headingStyle}>Hello Inline Style</h1>;

}

**🔹 2. CSS Stylesheet**

✅ **Files to use:**

* src/App.css → Add the style
* src/App.js → Use the class

📄 App.css:

.heading {

color: green;

font-size: 30px;

text-align: center;

}

📄 App.js:

import './App.css';

function App() {

return <h1 className="heading">Styled using CSS</h1>;

}

**🔹 3. CSS Modules**

✅ **Files to create:**

* src/components/WelcomeStyle.module.css
* src/components/WelcomeStyle.js

📄 WelcomeStyle.module.css:

.title {

color: purple;

background-color: lightyellow;

}

📄 WelcomeStyle.js:

import React from 'react';

import styles from './WelcomeStyle.module.css';

const WelcomeStyle = () => {

return <h2 className={styles.title}>Hello from Module CSS</h2>;

};

export default WelcomeStyle;

✅ Use <WelcomeStyle /> inside App.js

**🔹 4. Styled Components**

✅ **Install once:**

npm install styled-components

✅ **File to write:**  
src/App.js

📄 App.js:

import styled from 'styled-components';

const Title = styled.h1`

color: darkblue;

font-family: sans-serif;

`;

function App() {

return <Title>Styled Component Heading</Title>;

}

**🔹 5. Tailwind CSS**

✅ **Setup Required:**  
Refer to <https://tailwindcss.com/docs/guides/create-react-app>

✅ **Use Tailwind classes in App.js** after setup

📄 App.js:

<h1 className="text-2xl font-bold text-red-600">Tailwind Styled</h1>

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**🧠 Summary Table**

| **Method** | **Scope** | **When to Use** |
| --- | --- | --- |
| Inline Styling | Local | Dynamic or simple styles |
| CSS Stylesheet | Global | Traditional projects |
| CSS Modules | Local | Avoid global pollution, scoped styles |
| Styled Components | Local | React + CSS tightly coupled |
| Tailwind CSS | Global-ish | Utility-first, fast and clean styling |