

# Style in React

**Estimated time needed:** 3 minutes

Styling in React can be done in various ways, including inline styles, CSS modules, styled components, and more. Let's explore each approach briefly.

## Objective

After completing this reading, you will be able to:

- Explore various styles in React

## Inline styles

```
import React from 'react';
function MyComponent() {
  return (
    <div style={{ backgroundColor: 'lightblue', padding: '20px', borderRadius: '5px' }}>
      <p style={{ color: 'white', fontSize: '18px' }}>This is a paragraph with inline styles.</p>
    </div>
  );
}
export default MyComponent;
```

- The `<div>` element has inline styles applied directly using the `style` attribute.
- The styles are specified as a JavaScript object where the keys are CSS property names, and the values are the corresponding CSS property values.
- Similarly, the `<p>` element inside `<div>` has inline styles applied using the `style` attribute.
- The above component will render a `<div>` with a light blue background, padding, and border-radius. Inside the `<div>`, there's a `<p>` element with white text color and a font size of 18 pixels, all styled using inline styles.

## CSS modules

`toggleMessage.module.css`:

```
.message {
  display: block;
  color: green;
  font-size: 18px;
  margin-top: 10px;
}
ToggleMessage.js:
import React, { useState } from 'react';
import styles from './toggleMessage.module.css';
function ToggleMessage() {
  const [isVisible, setIsVisible] = useState(true);
  const toggleVisibility = () => {
    setIsVisible(!isVisible);
  };
  return (
    <div>
      <h2>Toggle Message</h2>
      <button onClick={toggleVisibility}>
        {isVisible ? 'Hide Message' : 'Show Message'}
      </button>
      <p className={isVisible ? styles.message : ''}>This is a hidden message.</p>
    </div>
  );
}
export default ToggleMessage;
```

- `Import styles from './toggleMessage.module.css`: This imports the CSS module `toggleMessage.module.css` as an object named `styles`. In CSS, a module typically refers to a file (usually with a `.module.css` extension) that contains a set of CSS rules scoped to a particular component or module in your application. These CSS rules are locally scoped to prevent unintended style conflicts between components.
- `const [isVisible, setIsVisible] = useState(true)`: This initializes a state variable `isVisible` using the `useState` hook. It represents whether the message paragraph should be visible or not, and it defaults to `true`.
- `const toggleVisibility = () => {...}`: This is a function that toggles the visibility of the message paragraph by updating the state variable `isVisible` when the button is clicked.
- `<p className={isVisible ? styles.message : ''}>This is a hidden message.</p>`: This paragraph element displays the message. Its class name is conditionally set based on the value of `isVisible`. If `isVisible` is `true`, it applies the `message` class from the CSS module, otherwise, it applies an empty string, effectively removing any additional styles.

## Styled components:

CSS can also be applied in React components using JavaScript objects, similar to the `messageStyle` object in the provided React component.

For example, in the following code there is one object with name `messageStyle` { `color: 'green', fontSize: '18px'` } represents CSS properties for color and font size. It also has a conditional styling. For example, { `display: isVisible ? 'block' : 'none'` } that dynamically sets the display property based on the value of `isVisible`.

```
import React, { useState } from 'react';
function ToggleMessage() {
  const [isVisible, setIsVisible] = useState(true);
  const toggleVisibility = () => {
    setIsVisible(!isVisible);
  };
  const messageStyle = {
    display: isVisible ? 'block' : 'none',
    color: 'green',
    fontSize: '18px',
    marginTop: '10px'
  };
  return (
    <div>
      <h2>Toggle Message</h2>
      <button onClick={toggleVisibility}>
        {isVisible ? 'Hide Message' : 'Show Message'}
      </button>
      <p style={messageStyle}>This is a hidden message.</p>
    </div>
  );
}
```

## Author(s)

Richa Arora



# Skills Network