

# REACT COMPONENTS



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# WHAT ARE COMPONENTS IN REACT?

Components are **essential parts** of React that help you build a user interface. Think of them as building **blocks** or pieces of a puzzle. Each component represents a part of the UI and the logic behind it. They are **designed to be reusable** and self-contained, meaning you can **use them in different places** without having to rewrite code.



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# WHY WE USE COMPONENTS IN REACT

- **Reusability:** Components allow you to reuse the same code across different parts of your application.
- **Separation of Concerns:** By dividing the UI into small, self-contained pieces, components help maintain a clean and manageable codebase.
- **Maintainability:** Smaller components are easier to understand, test, and maintain.
- **Composability:** Components can be combined to build complex UIs in a structured manner.



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# **TYPES OF COMPONENTS IN REACT**

1. Function Components
2. Class Components



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# FUNCTION COMPONENTS

Function components are simply JavaScript functions that return React elements. They are typically used for simpler, stateless components but can also manage state using hooks.



```
import React from 'react';

function Greeting(props) {
  return <h1>Hello, {props.name}!</h1>;
}
export default Greeting;
```



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# CLASS COMPONENTS

Class components are ES6 classes that extend from `React.Component` and have a `render` method that returns React elements. They are used for more complex components that require state or lifecycle methods.

```
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import React, { Component } from 'react';

class Greeting extends Component {
  render() {
    return <h1>Hello, {this.props.name}!</h1>;
  }
}

export default Greeting;
```



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# USING COMPONENTS IN CODE

To use the Greeting component in a React application, you can import and include it within another component or the main application component.



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# USING COMPONENTS IN CODE

```
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import React from 'react';
import ReactDOM from 'react-dom';
import Greeting from './Greeting';

function App() {
  return (
    <div>
      <Greeting name="Alice" />
      <Greeting name="Bob" />
      <Greeting name="Charlie" />
    </div>
  );
}

ReactDOM.render(<App />, document.getElementById('root'));
```



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