# React Basics – Introduction

React is a popular JavaScript library used for building user interfaces, especially single-page applications.

React is based on **components**.
 A component is a reusable piece of UI that controls its own logic and rendering.

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## Why React?

- Component-based architecture

- Fast rendering using Virtual DOM

- Easy state management

- Strong community support

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## JSX

JSX is a syntax extension for JavaScript.
 It allows writing HTML-like code inside JavaScript.

Example:

```
function App() {

  return <h1>Hello React</h1>;

}
```

## Props

Props are inputs passed to components.
 They allow components to be dynamic and reusable.

Example:

```
function Welcome(props) {
```

```
  return <h2>Hello {props.name}</h2>;

}
```

## State

State is used to store data that can change over time inside a component.

Example:

```
const [count, setCount] = useState(0);
```

## Conclusion

React makes building interactive user interfaces easier by breaking the UI into small reusable components and managing data efficiently.