

# JSX / PROPS – LESSON 3

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ReactDOM, Component Declarations, Arrow Functions,  
Event Handlers, Props, and useState

Presented by: [Your Name]  
Course: 2510 React

# REACTDOM

- ReactDOM is the package that provides DOM-specific methods.
- It is used to render React components into the DOM.
- Example:

```
import ReactDOM from 'react-dom';
ReactDOM.render(<App />,
document.getElementById('root'));
```

# COMPONENT DECLARATIONS

- Components are the building blocks of a React application.
- They can be declared as functions or classes.
- Example (Function Component):

```
function Welcome(props) {  
  return <h1>Hello, {props.name}</h1>;  
}
```

# ARROW FUNCTIONS

- Arrow functions provide a concise syntax for writing functions.
- They are often used in React for event handlers and functional components.
- Example:

```
const Welcome = (props) => {  
  return <h1>Hello, {props.name}</h1>;  
};
```

# EVENT HANDLERS

- Event handlers are functions that handle user interactions.
- They can be added to elements using JSX syntax.
- Example:

```
function handleClick() {  
  alert('Button clicked!');  
}  
  
<button onClick={handleClick}>Click me</button>
```

# PROPS

- Props are inputs to components.
- They allow data to be passed from parent to child components.
- Example:

```
function Welcome(props) {  
  return <h1>Hello, {props.name}</h1>;  
}  
<Welcome name="Sara" />
```

# USESTATE

- useState is a Hook that allows you to add state to functional components.
- It returns an array with the current state and a function to update it.
- Example:

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

```
<button onClick={() => setCount(count + 1)}>Click  
me</button>
```