

React - Events

Topics : [React JS](#)

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In React, handling events is similar to handling events in regular HTML, with some differences due to the fact that React uses a synthetic event system for cross-browser compatibility. Here's how you can handle events in React:

1. Basic Event Handling:

```
import React from 'react';

class MyComponent extends React.Component {
  handleClick = () => {
    console.log('Button clicked!');
  };

  render() {
    return (
      <div>
        <button onClick={this.handleClick}>Click me</button>
      </div>
    );
  }
}

export default MyComponent;
```

In this example, the `handleClick` method is called when the button is clicked.

2. Passing Parameters to Event Handlers:

If you need to pass additional parameters to an event handler, you can use an arrow function:

```
import React from 'react';

class MyComponent extends React.Component {
  handleClick = (param) => {
    console.log(`Button clicked with param: ${param}`);
  };

  render() {
    return (
      <div>
```

```
<button onClick={() => this.handleClick('example')}>Click me</button>
</div>
);
}
}
```

```
export default MyComponent;
```

3. Using `bind` for Event Handlers:

Another way to handle parameterized event handlers is by using `bind`:

```
import React from 'react';
```

```
class MyComponent extends React.Component {
  handleClick(param) {
    console.log(`Button clicked with param: ${param}`);
  }

  render() {
    return (
      <div>
        <button onClick={this.handleClick.bind(this, 'example')}>Click me</button>
      </div>
    );
  }
}
```

```
export default MyComponent;
```

4. Updating State with Events:

You often use events to trigger updates to the component's state, which in turn triggers a re-render:

```
import React from 'react';
```

```
class Counter extends React.Component {
  constructor(props) {
    super(props);
    this.state = {
      count: 0,
    };
  }

  handleIncrement = () => {
    this.setState({ count: this.state.count + 1 });
  };
}
```

```
render() {
  return (
    <div>
      <p>Count: {this.state.count}</p>
      <button onClick={this.handleIncrement}>Increment</button>
    </div>
  );
}
```

```
</div>
);
}
}
```

```
export default Counter;
```

5. Synthetic Events:

React uses a synthetic event system to ensure consistent behavior across different browsers. The `onClick`, `onChange`, and other event handlers receive synthetic events that wrap the native browser events.

```
import React from 'react';

class MyComponent extends React.Component {
  handleChange = (event) => {
    console.log(`Input value: ${event.target.value}`);
  };

  render() {
    return (
      <div>
        <input type="text" onChange={this.handleChange} />
      </div>
    );
  }
}

export default MyComponent;
```

6. Preventing Default Behavior:

To prevent the default behavior of an event, such as form submission, you can use `event.preventDefault()`:

```
import React from 'react';

class MyComponent extends React.Component {
  handleSubmit = (event) => {
    event.preventDefault();
    console.log('Form submitted!');
  };

  render() {
    return (
      <div>
        <form onSubmit={this.handleSubmit}>
          <button type="submit">Submit</button>
        </form>
      </div>
    );
  }
}
```

```
}  
}
```

```
export default MyComponent;
```

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