



Video 3.3

React Events

Chris Murphy

# Review

---

- React allows us to insert JavaScript elements/components into VirtualDOM
- We can create additional components using the **React.Component** class as a base
- Components have two types of attributes
  - **Properties:** set at initialization and immutable thereafter
  - **State:** change in response to user events
- Component callback functions can be bound to HTML events

# Changing Component State

---

- A component's state typically changes in response to some user action or "event"
- We can **bind** an event to a callback function within a React component
- That component can then change state using its **setState** function
- This will automatically re-render the component and any other affected component

Count: 0

Click Me!

Count: 1

Click Me!

```

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

  incrementCount() { // callback function
    this.setState( { count: this.state.count + 1; } );
  }

  render() { // invoked when setState is called
    return (
      <div> Count: { this.state.count }
      <button type="button"
        onClick={ this.incrementCount.bind(this); } >
        Increment
      </button>
      </div>
    );
  }
};

```

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

  incrementCount() { // callback function
    this.setState( { count: this.state.count + 1; } );
  }

  render() { // invoked when setState is called
    return (
      <div> Count: { this.state.count }
      <button type="button"
        onClick={ this.incrementCount.bind(this); } >
        Increment
      </button>
      </div>
    );
  }
};
```

```

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

  incrementCount() { // callback function
    this.setState( { count: this.state.count + 1; } );
  }

  render() { // invoked when setState is called
    return (
      <div> Count: { this.state.count }
      <button type="button"
        onClick={ this.incrementCount.bind(this); } >
        Increment
      </button>
      </div>
    );
  }
};

```



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

  incrementCount() { // callback function
    this.setState( { count: this.state.count + 1; } );
  }

  render() { // invoked when setState is called
    return (
      <div> Count: { this.state.count }
      <button type="button"
        onClick={ this.incrementCount.bind(this); } >
        Increment
      </button>
      </div>
    );
  }
};
```

```

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

  incrementCount() { // callback function
    this.setState( { count: this.state.count + 1; } );
  }

  render() { // invoked when setState is called
    return (
      <div> Count: { this.state.count }
      <button type="button"
        onClick={ this.incrementCount.bind(this); } >
        Increment
      </button>
      </div>
    );
  }
};

```

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

  incrementCount() { // callback function
    this.setState( { count: this.state.count + 1; } );
  }

  render() { // invoked when setState is called
    return (
      <div> Count: { this.state.count }
      <button type="button"
        onClick={ this.incrementCount.bind(this); } >
        Increment
      </button>
      </div>
    );
  }
};
```

```

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

  incrementCount() { // callback function
    this.setState( { count: this.state.count + 1; } );
  }

  render() { // invoked when setState is called
    return (
      <div> Count: { this.state.count }
      <button type="button"
        onClick={ this.incrementCount.bind(this); } >
        Increment
      </button>
      </div>
    );
  }
};

```

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

  incrementCount() { // callback function
    this.setState( { count: this.state.count + 1; } );
  }

  render() { // invoked when setState is called
    return (
      <div> Count: { this.state.count }
      <button type="button"
        onClick={ this.incrementCount.bind(this); } >
        Increment
      </button>
      </div>
    );
  }
};
```

```

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

  incrementCount() { // callback function
    this.setState( { count: this.state.count + 1; } );
  }

  render() { // invoked when setState is called
    return (
      <div> Count: { this.state.count }
      <button type="button"
        onClick={ this.incrementCount.bind(this); } >
        Increment
      </button>
      </div>
    );
  }
};

```

```

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

  incrementCount() { // callback function
    this.setState( { count: this.state.count + 1; } );
  }

  render() { // invoked when setState is called
    return (
      <div> Count: { this.state.count }
      <button type="button"
        onClick={ this.incrementCount.bind(this); } >
        Increment
      </button>
      </div>
    );
  }
};

```

```

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

  incrementCount() { // callback function
    this.setState( { count: this.state.count + 1; } );
  }

  render() { // invoked when setState is called
    return (
      <div> Count: { this.state.count }
      <button type="button"
        onClick={ this.incrementCount.bind(this); } >
        Increment
      </button>
      </div>
    );
  }
};

```



```

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

  incrementCount() { // callback function
    this.setState( { count: this.state.count + 1; } );
  }

  render() { // invoked when setState is called
    return (
      <div> Count: { this.state.count }
      <button type="button"
        onClick={ this.incrementCount.bind(this); } >
        Increment
      </button>
    </div>
    );
  }
};

```

```

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

  incrementCount() { // callback function
    this.setState( { count: this.state.count + 1; } );
  }

  render() { // invoked when setState is called
    return (
      <div> Count: { this.state.count }
      <button type="button"
        onClick={ this.incrementCount.bind(this); } >
        Increment
      </button>
    </div>
    );
  }
};

```

```

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

  incrementCount() { // callback function
    this.setState( { count: this.state.count + 1; } );
  }

  render() { // invoked when setState is called
    return (
      <div> Count: { this.state.count }
      <button type="button"
        onClick={ this.incrementCount.bind(this); } >
        Increment
      </button>
      </div>
    );
  }
};

```

```

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

  incrementCount() { // callback function
    this.setState( { count: this.state.count + 1; } );
  }

  render() { // invoked when setState is called
    return (
      <div> Count: { this.state.count }
      <button type="button"
        onClick={ this.incrementCount.bind(this); } >
        Increment
      </button>
      </div>
    );
  }
};

```

```

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

  incrementCount() { // callback function
    this.setState( { count: this.state.count + 1; } );
  }

  render() { // invoked when setState is called
    return (
      <div> Count: { this.state.count }
      <button type="button"
        onClick={ this.incrementCount.bind(this); } >
        Increment
      </button>
      </div>
    );
  }
};

```

```

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

  incrementCount() { // callback function
    this.setState( { count: this.state.count + 1; } );
  }

  render() { // invoked when setState is called
    return (
      <div> Count: { this.state.count }
      <button type="button"
        onClick={ this.incrementCount.bind(this); } >
        Increment
      </button>
      </div>
    );
  }
};

```

Java 👍 Like

JavaScript 👍 Like

Java 👍 Like



JavaScript 👍 Like



**Java** 👍 Unlike

JavaScript 👍 Like

**Java** 👍 Unlike

JavaScript 👍 Like

**Java** 👍 Unlike

**JavaScript** 👍 Unlike

**Java** 👍 Unlike

**JavaScript** 👍 Unlike

react-like.html

Java 👍 Like

JavaScript 👍 Unlike

---

```
ReactDOM.render(  
  <div>  
    <LikeButton name="Java" />  
    <LikeButton name="JavaScript" />  
  </div>,  
  document.getElementById('container'));
```

---

**ReactDOM.render (**

```
<div>
```

```
  <LikeButton name="Java" />
```

```
  <LikeButton name="JavaScript" />
```

```
</div> ,
```

```
document.getElementById('container')) ;
```

---

```
ReactDOM.render(  
  <div>  
    <LikeButton name="Java" />  
    <LikeButton name="JavaScript" />  
  </div>,  
  document.getElementById('container'));
```



---

```
ReactDOM.render(  
  <div>  
    <LikeButton name="Java" />  
    <LikeButton name="JavaScript" />  
  </div>,  
  document.getElementById('container'));
```

---

```
ReactDOM.render(  
  <div>  
    <LikeButton name="Java" />  
    <LikeButton name="JavaScript" />  
  </div>,  
  document.getElementById('container'));
```

---

```
ReactDOM.render(  
  <div>  
    <LikeButton name="Java" />  
    <LikeButton name="JavaScript" />  
  </div>,  
  document.getElementById('container'));
```

```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
  }
};

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
  }
};

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
    }
  };

```

```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
    }
  };

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
  }
};

```





```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
    }
  };

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
  }
};

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
  }
};

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
  }
};

```

```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
    }
  };

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
    }
  };

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
    }
  };

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
    }
  };

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
    <p><span style={{color:myColor, fontWeight:weight }}>
      {name} </span>
      <span onClick={this.toggle.bind(this)}>
        {'\ud83d\udc4d' + txt}
      </span> </p> );
  }
};

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
  }
};

```

```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
  }
};

```

```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={ {color:myColor, fontWeight:weight } }>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
  }
};

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
  }
};

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
  }
};

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
  }
};

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
    }
  };

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
    }
  };

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
    }
  };

```

```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
  }
};

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
  }
};

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
  }
};

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
  }
};

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
  }
};

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
  }
};

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
  }
};

```



```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
    }
  };

```



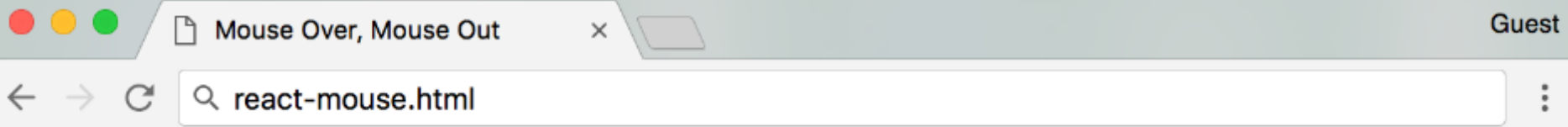
```

class LikeButton extends React.Component {
  constructor(props) {
    super(props);
    this.state = { liked : false };
  }

  toggle() {
    this.setState( {liked: !this.state.liked} );
  }

  render() {
    var name = this.props.name;
    var txt = this.state.liked ? 'Unlike' : 'Like';
    var myColor = this.state.liked ? 'red' : 'black';
    var weight = this.state.liked ? 'bold' : 'normal';
    return (
      <p><span style={{color:myColor, fontWeight:weight }}>
        {name} </span>
        <span onClick={this.toggle.bind(this)}>
          {'\ud83d\udc4d' + txt}
        </span> </p> );
    }
  };

```



# Look at me!

Look at me! 

Look at me!



Look at me!

**Look at me!**





```
class MyText extends React.Component {  
  
  constructor(props) {  
    super(props);  
    this.state = { bold : false, color : 'black' };  
  }  
  
  handleMouseOver() {  
    this.setState( { bold : true } );  
  }  
  
  handleMouseOut() {  
    this.setState( { bold: false } );  
  }  
  
  handleClick() {  
    if (this.state.color == 'red' )  
      this.setState( { color: 'black' } );  
    else  
      this.setState( { color: 'red' } );  
  }  
  
  . . .  
}
```

```
class MyText extends React.Component {  
  
  constructor(props) {  
    super(props);  
    this.state = { bold : false, color : 'black' };  
  }  
  
  handleMouseOver() {  
    this.setState( { bold : true } );  
  }  
  
  handleMouseOut() {  
    this.setState( { bold: false } );  
  }  
  
  handleClick() {  
    if (this.state.color == 'red' )  
      this.setState( { color: 'black' } );  
    else  
      this.setState( { color: 'red' } );  
  }  
  
  . . .  
  
}
```

```
class MyText extends React.Component {  
  
  constructor(props) {  
    super(props) ;  
    this.state = { bold : false, color : 'black' };  
  }  
  
  handleMouseOver() {  
    this.setState( { bold : true } );  
  }  
  
  handleMouseOut() {  
    this.setState( { bold: false } );  
  }  
  
  handleClick() {  
    if (this.state.color == 'red' )  
      this.setState( { color: 'black' } );  
    else  
      this.setState( { color: 'red' } );  
  }  
  
  . . .  
}
```

```
class MyText extends React.Component {  
  
  constructor(props) {  
    super(props);  
    this.state = { bold : false, color : 'black' };  
  }  
  
  handleMouseOver() {  
    this.setState( { bold : true } );  
  }  
  
  handleMouseOut() {  
    this.setState( { bold: false } );  
  }  
  
  handleClick() {  
    if (this.state.color == 'red' )  
      this.setState( { color: 'black' } );  
    else  
      this.setState( { color: 'red' } );  
  }  
  
  . . .  
}
```

```
class MyText extends React.Component {  
  
  constructor(props) {  
    super(props);  
    this.state = { bold : false, color : 'black' };  
  }  
  
  handleMouseOver() {  
    this.setState( { bold : true } );  
  }  
  
  handleMouseOut() {  
    this.setState( { bold: false } );  
  }  
  
  handleClick() {  
    if (this.state.color == 'red' )  
      this.setState( { color: 'black' } );  
    else  
      this.setState( { color: 'red' } );  
  }  
  
  . . .  
}
```

```
class MyText extends React.Component {  
  
  constructor(props) {  
    super(props);  
    this.state = { bold : false, color : 'black' };  
  }  
  
  handleMouseOver() {  
    this.setState( { bold : true } );  
  }  
  
  handleMouseOut() {  
    this.setState( { bold: false } );  
  }  
  
  handleClick() {  
    if (this.state.color == 'red' )  
      this.setState( { color: 'black' } );  
    else  
      this.setState( { color: 'red' } );  
  }  
  
  . . .  
}
```

```
class MyText extends React.Component {  
  
  constructor(props) {  
    super(props);  
    this.state = { bold : false, color : 'black' };  
  }  
  
  handleMouseOver() {  
    this.setState( { bold : true } );  
  }  
  
  handleMouseOut() {  
    this.setState( { bold: false } );  
  }  
  
  handleClick() {  
    if (this.state.color == 'red' )  
      this.setState( { color: 'black' } );  
    else  
      this.setState( { color: 'red' } );  
  }  
  
  . . .  
}
```

```
class MyText extends React.Component {  
  
  constructor(props) {  
    super(props);  
    this.state = { bold : false, color : 'black' };  
  }  
  
  handleMouseOver() {  
    this.setState( { bold : true } );  
  }  
  
  handleMouseOut() {  
    this.setState( { bold: false } );  
  }  
  
  handleClick() {  
    if (this.state.color == 'red' )  
      this.setState( { color: 'black' } );  
    else  
      this.setState( { color: 'red' } );  
  }  
  
  . . .  
}
```



```
class MyText extends React.Component {  
  
  constructor(props) {  
    super(props);  
    this.state = { bold : false, color : 'black' };  
  }  
  
  handleMouseOver() {  
    this.setState( { bold : true } );  
  }  
  
  handleMouseOut() {  
    this.setState( { bold: false } );  
  }  
  
  handleClick() {  
    if (this.state.color == 'red' )  
      this.setState( { color: 'black' } );  
    else  
      this.setState( { color: 'red' } );  
  }  
  
  . . .  
}
```

```
class MyText extends React.Component {  
  
  constructor(props) {  
    super(props);  
    this.state = { bold : false, color : 'black' };  
  }  
  
  handleMouseOver() {  
    this.setState( { bold : true } );  
  }  
  
  handleMouseOut() {  
    this.setState( { bold: false } );  
  }  
  
  handleClick() {  
    if (this.state.color == 'red' )  
      this.setState( { color: 'black' } );  
    else  
      this.setState( { color: 'red' } );  
  }  
  
  . . .  
}
```

```
class MyText extends React.Component {  
  
  constructor(props) {  
    super(props);  
    this.state = { bold : false, color : 'black' };  
  }  
  
  handleMouseOver() {  
    this.setState( { bold : true } );  
  }  
  
  handleMouseOut() {  
    this.setState( { bold: false } );  
  }  
  
  handleClick() {  
    if (this.state.color == 'red' )  
      this.setState( { color: 'black' } );  
    else  
      this.setState( { color: 'red' } );  
  }  
  
  . . .  
}
```

```
class MyText extends React.Component {  
  
  constructor(props) {  
    super(props);  
    this.state = { bold : false, color : 'black' };  
  }  
  
  handleMouseOver() {  
    this.setState( { bold : true } );  
  }  
  
  handleMouseOut() {  
    this.setState( { bold: false } );  
  }  
  
  handleClick() {  
    if (this.state.color == 'red' )  
      this.setState( { color: 'black' } );  
    else  
      this.setState( { color: 'red' } );  
  }  
  
  . . .  
}
```

```
class MyText extends React.Component {  
  
  constructor(props) {  
    super(props);  
    this.state = { bold : false, color : 'black' };  
  }  
  
  handleMouseOver() {  
    this.setState( { bold : true } );  
  }  
  
  handleMouseOut() {  
    this.setState( { bold: false } );  
  }  
  
  handleClick() {  
    if (this.state.color == 'red' )  
      this.setState( { color: 'black' } );  
    else  
      this.setState( { color: 'red' } );  
  }  
  
  . . .  
}
```

```
class MyText extends React.Component {

  constructor(props) {
    super(props);
    this.state = { bold : false, color : 'black' };
  }

  handleMouseOver() {
    this.setState( { bold : true } );
  }

  handleMouseOut() {
    this.setState( { bold: false } );
  }

  handleClick() {
    if (this.state.color == 'red' )
      this.setState( { color: 'black' } );
    else
      this.setState( { color: 'red' } );
  }

  . . .
}
```

```

class MyText extends React.Component {

    . . .

    render () {
        var myColor = this.state.color;
        var weight = this.state.bold ? 'bold' : 'normal' ;
        return (
            <span style={ {color:myColor, fontWeight:weight} }
            onClick={this.handleClick.bind(this)}
                onMouseOver={this.handleMouseOver.bind(this)}
                onMouseOut={this.handleMouseOut.bind(this)} >
                {this.props.text}
            </span>
        );
    }
};

ReactDOM.render(
    <div><MyText text="Look at me!" /></div>,
    document.getElementById('container')
);

```

```

class MyText extends React.Component {

  . . .

  render () {
    var myColor = this.state.color;
    var weight = this.state.bold ? 'bold' : 'normal' ;
    return (
      <span style={ {color:myColor, fontWeight:weight} }
        onClick={this.handleClick.bind(this)}
          onMouseOver={this.handleMouseOver.bind(this)}
          onMouseOut={this.handleMouseOut.bind(this)} >
        {this.props.text}
      </span>
    );
  }
};

ReactDOM.render(
  <div><MyText text="Look at me!" /></div>,
  document.getElementById('container')
);

```



```

class MyText extends React.Component {

  . . .

  render () {
    var myColor = this.state.color;
    var weight = this.state.bold ? 'bold' : 'normal' ;
    return (
      <span style={ {color:myColor, fontWeight:weight} }
        onClick={this.handleClick.bind(this)}
        onMouseOver={this.handleMouseOver.bind(this)}
        onMouseOut={this.handleMouseOut.bind(this)} >
        {this.props.text}
      </span>
    );
  }
};

ReactDOM.render(
  <div><MyText text="Look at me!" /></div>,
  document.getElementById('container')
);

```

```
class MyText extends React.Component {  
  
  . . .  
  
  render () {  
    var myColor = this.state.color;  
    var weight = this.state.bold ? 'bold' : 'normal' ;  
    return (  
      <span style={ {color:myColor, fontWeight:weight} }  
        onClick={this.handleClick.bind(this)}  
          onMouseOver={this.handleMouseOver.bind(this)}  
          onMouseOut={this.handleMouseOut.bind(this)} >  
        {this.props.text}  
      </span>  
    );  
  }  
};  
  
ReactDOM.render(  
  <div><MyText text="Look at me!" /></div>,  
  document.getElementById('container')  
) ;
```

```

class MyText extends React.Component {

  . . .

  render () {
    var myColor = this.state.color;
    var weight = this.state.bold ? 'bold' : 'normal' ;
    return (
      <span style={ {color:myColor, fontWeight:weight} }
        onClick={this.handleClick.bind(this)}
        onMouseOver={this.handleMouseOver.bind(this)}
        onMouseOut={this.handleMouseOut.bind(this)} >
        {this.props.text}
      </span>
    );
  }
};

ReactDOM.render(
  <div><MyText text="Look at me!" /></div>,
  document.getElementById('container')
);

```

```

class MyText extends React.Component {

  . . .

  render () {
    var myColor = this.state.color;
    var weight = this.state.bold ? 'bold' : 'normal' ;
    return (
      <span style={ {color:myColor, fontWeight:weight} }
        onClick={this.handleClick.bind(this)}
          onMouseOver={this.handleMouseOver.bind(this)}
          onMouseOut={this.handleMouseOut.bind(this)} >
        {this.props.text}
      </span>
    );
  }
};

ReactDOM.render(
  <div><MyText text="Look at me!" /></div>,
  document.getElementById('container')
);

```

```
class MyText extends React.Component {  
  
  . . .  
  
  render () {  
    var myColor = this.state.color;  
    var weight = this.state.bold ? 'bold' : 'normal' ;  
    return (  
      <span style={ {color:myColor, fontWeight:weight} }  
        onClick={this.handleClick.bind(this)}  
          onMouseOver={this.handleMouseOver.bind(this)}  
          onMouseOut={this.handleMouseOut.bind(this)} >  
        {this.props.text}  
      </span>  
    );  
  }  
};  
  
ReactDOM.render(  
  <div><MyText text="Look at me!" /></div>,  
  document.getElementById('container')  
) ;
```

```

class MyText extends React.Component {

  . . .

  render () {
    var myColor = this.state.color;
    var weight = this.state.bold ? 'bold' : 'normal' ;
    return (
      <span style={ {color:myColor, fontWeight:weight} }
        onClick={this.handleClick.bind(this)}
        onMouseOver={this.handleMouseOver.bind(this)}
        onMouseOut={this.handleMouseOut.bind(this)} >
        {this.props.text}
      </span>
    );
  }
};

ReactDOM.render(
  <div><MyText text="Look at me!" /></div>,
  document.getElementById('container')
);

```

```

class MyText extends React.Component {

  . . .

  render () {
    var myColor = this.state.color;
    var weight = this.state.bold ? 'bold' : 'normal' ;
    return (
      <span style={ {color:myColor, fontWeight:weight} }
        onClick={this.handleClick.bind(this)}
          onMouseOver={this.handleMouseOver.bind(this)}
          onMouseOut={this.handleMouseOut.bind(this)} >
        {this.props.text}
      </span>
    );
  }
};

ReactDOM.render(
  <div><MyText text="Look at me!" /></div>,
  document.getElementById('container')
);

```

```

class MyText extends React.Component {

  . . .

  render () {
    var myColor = this.state.color;
    var weight = this.state.bold ? 'bold' : 'normal' ;
    return (
      <span style={ {color:myColor, fontWeight:weight} }
        onClick={this.handleClick.bind(this)}
        onMouseOver={this.handleMouseOver.bind(this)}
        onMouseOut={this.handleMouseOut.bind(this)} >
        {this.props.text}
      </span>
    );
  }
};

ReactDOM.render(
  <div><MyText text="Look at me!" /></div>,
  document.getElementById('container')
);

```



```

class MyText extends React.Component {

  . . .

  render () {
    var myColor = this.state.color;
    var weight = this.state.bold ? 'bold' : 'normal' ;
    return (
      <span style={ {color:myColor, fontWeight:weight} }
        onClick={this.handleClick.bind(this)}
        onMouseOver={this.handleMouseOver.bind(this)}
        onMouseOut={this.handleMouseOut.bind(this)} >
{this.props.text}
      </span>
    );
  }
};

ReactDOM.render(
  <div><MyText text="Look at me!" /></div>,
  document.getElementById('container')
);

```

```

class MyText extends React.Component {

  . . .

  render () {
    var myColor = this.state.color;
    var weight = this.state.bold ? 'bold' : 'normal' ;
    return (
      <span style={ {color:myColor, fontWeight:weight} }
        onClick={this.handleClick.bind(this)}
        onMouseOver={this.handleMouseOver.bind(this)}
        onMouseOut={this.handleMouseOut.bind(this)} >
{this.props.text}
      </span>
    );
  }
};

ReactDOM.render(
  <div><MyText text="Look at me!" /></div>,
  document.getElementById('container')
);

```

# Summary

---

- We can bind user events in HTML elements to callback functions in React components
- When we invoke a component's **setState** function, the **render** function will automatically be called and the component's appearance can change accordingly