React

A JavaScript library for building user interfaces

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Declarative Component-Base

React makes it painless to create interactive UIs. Design simple views for each state in your application, and React will efficiently update and render just the right components when your data changes.

Build encapsulated c compose them to ma

Declarative views make your code more predictable and easier to debug.

Since component loc can easily pass rich d the DOM.

A Simple Component

React components implement a render() method that takes input data and returns what to display. This example uses an XML-like syntax called JSX. Input data that is passed into the component can be accessed by render() via this.props.

JSX is optional and not required to use React. Try the <u>Babel REPL</u> to see the raw JavaScript code produced by the JSX compilation step.

LIVE JSX EDITOR

RESULT

Hello Taylor

A Stateful Component

In addition to taking input data (accessed via this.props), a component can maintain internal state data (accessed via this.state). When a component's state data changes, the rendered markup will be updated by re-invoking render().

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

  tick() {
    this.setState(prevState => ({
      seconds: prevState.seconds + 1
    }));
  }

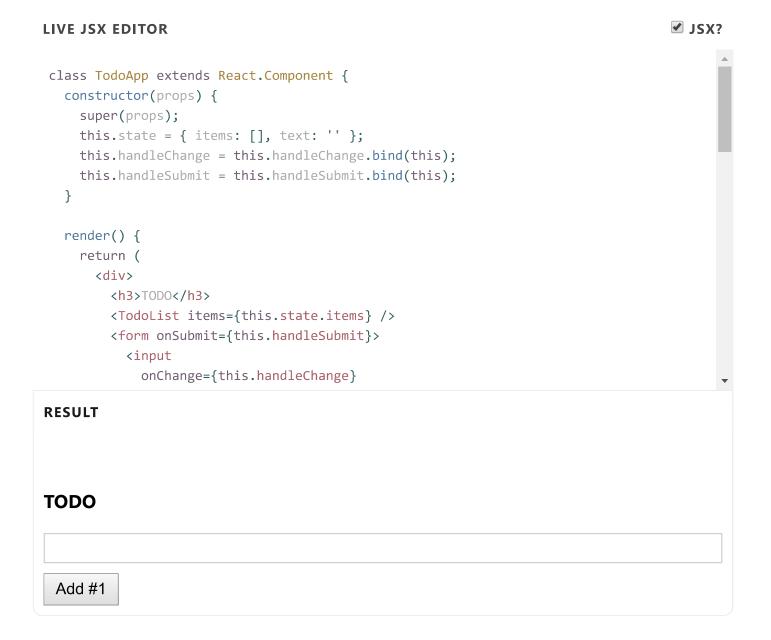
  componentDidMount() {
    this.interval = setInterval(() => this.tick(), 1000);
  }
```

RESULT

Seconds: 0



Using props and state, we can put together a small Todo application. This example uses state to track the current list of items as well as the text that the user has entered. Although event handlers appear to be rendered inline, they will be collected and implemented using event delegation.



A Component Using External Plugins

React is flexible and provides hooks that allow you to interface with other libraries and frameworks. This example uses **remarkable**, an external Markdown library, to convert the <textarea>'s value in real time.



```
class MarkdownEditor extends React.Component {
  constructor(props) {
    super(props);
    this.handleChange = this.handleChange.bind(this);
    this.state = { value: 'Type some *markdown* here!' };
}

handleChange(e) {
    this.setState({ value: e.target.value });
}

getRawMarkup() {
    const md = new Remarkable();
    return { __html: md.render(this.state.value) };
}
```

RESULT

Input

Type some *markdown* here!

Output

Type some *markdown* here!

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