Events

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Events – The React Way

- **React has its own event abstraction**
  - Normalizes event behavior
  - Uniform event system for DOM events and component events

- **SyntheticEvent**
  - Original event object is available via the nativeEvent property

DOM Events

- **Browser events**

- **Receive a SyntheticEvent object**

```
var Echo = React.createClass({



});
React.renderComponent(<Echo />, document.body);
```

DOM Events

- **Browser events**

- **Receive a SyntheticEvent object**

```
var Echo = React.createClass({
    render: function() {
        return <input type="text" onChange={this.handleChange}/>;
    },



});
React.renderComponent(<Echo />, document.body);
```

DOM Events

- **Browser events**

- **Receive a SyntheticEvent object**

```
var Echo = React.createClass({
    render: function() {
        return <input type="text" onChange={this.handleChange}/>;
    },
    handleChange: function (e) {
        console.log(e.target.value);
    }
});
React.renderComponent(<Echo />, document.body);
```

Component Events

- **Domain specific events**

- **Higher abstraction**

```
var Timer = React.createClass({



});
```

Component Events

- **Domain specific events**

- **Higher abstraction**

```
var Timer = React.createClass({
    render: function() {
        return <div style={{display: 'none'}}/>;
    },



});
```

Component Events

- **Domain specific events**

- **Higher abstraction**

```
var Timer = React.createClass({
    render: function() {
        return <div style={{display: 'none'}}/>;
    },



});

function thingToDo() { console.log('tick'); }

React.renderComponent(<Timer onInterval={thingToDo} interval={1000} />,
                        document.body);
```

Component Events

- **Domain specific events**

- **Higher abstraction**

```
var Timer = React.createClass({
    render: function() {
        return <div style={{display: 'none'}}/>;
    },
    componentDidMount: function () {
        setInterval(this.props.onInterval, this.props.interval);
    }
});

function thingToDo() { console.log('tick'); }

React.renderComponent(<Timer onInterval={thingToDo} interval={1000} />,
                        document.body);
```

Adding Events to the Author Quiz

Author Quiz

Select the book written by the author shown

The Adventures of Huckleberry Finn

Hamlet

The Shining

Romeo and Juliet

Anything

(Add watermark during editing)
Note: Warning will not appear during Slide Show view.

Touch Events

- **Support for touch devices**

React.initializeTouchEvents(true)

- **Adds**
  - onTouchStart
  - onTouchEnd
  - onTouchMove
  - onTouchCancel

Summary

- **React normalizes events across browsers**

- **DOM events**

- **Component events**

- **Touch events**