

Forms

Liam McLennan



pluralsight 
hardcore dev and IT training

Controlled Components

```
render: function() {  
  return <input type="text" value="init" />;  
}
```

- Form component rendered with its value or checked attribute provided as a prop
- Preserve React's rendering semantics

Changing Controlled Components

- Change via state

```
render: function() {  
    return <input type="text" value="init" />;  
}
```

Changing Controlled Components

- Change via state

```
render: function() {  
    return <input type="text" value="init"  
        onChange={this.handleChange} />;  
},  
handleChange: function (e) {  
    console.log(e.target.value);  
}
```

Changing Controlled Components

- Change via state

```
render: function() {  
  return <input type="text" value={this.state.init}  
    onChange={this.handleChange} />;  
},  
handleChange: function (e) {  
  console.log(e.target.value);  
}
```

Changing Controlled Components

- Change via state

```
render: function() {  
    return <input type="text" value={this.state.init}  
        onChange={this.handleChange} />;  
},  
handleChange: function (e) {  
    this.setState({ init: e.target.value } );  
}
```

Uncontrolled Components

- Form components rendered without a value or checked prop

```
render: function() {  
  return <input type="text" />;  
}
```

- Cause the rendered DOM to diverge from React's model of the DOM

Uncontrolled Component Defaults

- Set an initial value with the `defaultValue` attribute

```
render: function() {  
    return <input type="text" defaultValue="init" />;  
}
```


Refs

- **Provide a way to reference owned components**
- **Usage**
 - Add a ref attribute to a React DOM component to name the component instance
 - Access the element via `this.refs.<element name>`

```
render: function() {  
    return <input ref="inp" type="text" />;  
},  
componentDidMount: function () {  
    React.findDOMNode(this.refs.inp).value = "set by ref";}
```

React.findDOMNode()

- Get the underlying DOM node from a React component instance

```
render: function() {  
    return <input ref="inp" type="text"  
        onChange={this.handleChange} />;  
},  
handleChange: function () {  
    console.log(React.findDOMNode(this.refs.inp).value);  
}
```

Client-side Routing with HTML5 pushState

- pushState allows JavaScript to update the browser url
- Uses proper URLs

```
http://localhost:8080/quiz/1
```

```
http://localhost:8080/form
```

- Requires a browser that supports pushstate
- Requires server-side support

Client-side Routing with Hash Fragments

```
http://localhost:8080/#quiz/1
```

- Works because the hash fragment is never sent to the server
- Works in all browsers

The Author Quiz

Author Quiz

Select the book written by the author shown



The Adventures of Huckleberry Finn

Hamlet

The Shining

Romeo and Juliet

Summary

- **Controlled components**
- **Uncontrolled components**
- **refs**
- **React.findDOMNode()**
- **Client-side routing**
 - HTML5 pushState
 - Hash fragments