**CHILD COMPONENTS UPDATE THEIR SIBLINGS' PROPS**

**Stateless Components Inherit From Stateful Components Recap**

You just executed your first complete React programming pattern!

Let's review. Follow each step in the code editor:

* A *stateful* component class defines a function that calls this.setState. (**Parent.js**, lines 15-19)
* The stateful component passes that function down to a stateless component. (**Parent.js**, line 24)
* That *stateless* component class defines a function that calls the passed-down function, and that can take an *event object*as an argument. (**Child.js**, lines 10-13)
* The stateless component class uses this new function as an event handler. (**Child.js**, line 20)
* When an event is detected, the parent's state updates. (A user selects a new dropdown menu item)
* The stateful component class passes down its state, distinct from the ability to *change*its state, to a different stateless component. (**Parent.js**, line 25)
* That stateless component class receives the state and displays it. (**Sibling.js**, lines 5-10)
* An instance of the stateful component class is rendered. One stateless child component displays the state, and a different stateless child component displays a way to *change*the (**Parent.js**, lines 23-26)

This pattern occurs in React all the time! The more that you see it, the more that its elegance will become clear.

Being introduced to this pattern is your first step towards understanding how React apps fit together! You'll get more practice using it throughout this course, as well as in the course after this one.

**Parent.js:**

import React from 'react';

import ReactDOM from 'react-dom';

import { Child } from './Child';

import { Sibling } from './Sibling';

class Parent extends React.Component {

constructor(props) {

super(props);

this.state = { name: 'Frarthur' };

this.changeName = this.changeName.bind(this);

}

changeName(newName) {

this.setState({

name: newName

});

}

render() {

return (

<div>

<Child onChange={this.changeName} />

<Sibling name={this.state.name} />

</div>

);

}

});

ReactDOM.render(

<Parent />,

document.getElementById('app')

);

**Child.js:**

import React from 'react';

export class Child extends React.Component {

constructor(props) {

super(props);

this.handleChange = this.handleChange.bind(this);

}

handleChange(e) {

const name = e.target.value;

this.props.onChange(name);

}

render() {

return (

<div>

<select

id="great-names"

onChange={this.handleChange}>

<option value="Frarthur">Frarthur</option>

<option value="Gromulus">Gromulus</option>

<option value="Thinkpiece">Thinkpiece</option>

</select>

</div>

);

}

}

**Sibling.js**

import React from 'react';

export class Sibling extends React.Component {

render() {

const name = this.props.name;

return (

<div>

<h1>Hey, my name is {name}!</h1>

<h2>Don't you think {name} is the prettiest name ever?</h2>

<h2>Sure am glad that my parents picked {name}!</h2>

</div>

);

}

}

**Style.css:**

**html, body {**

**margin: 0;**

**height: 100%;**

**}**

**body {**

**background-color: #ffffff;**

**font-family: Helvetica, Arial, sans-serif;**

**text-align: center;**

**}**

**#app {**

**position: relative;**

**height: 100%;**

**width: 100%;**

**padding-top: 10px;**

**}**

**#app div {**

**width: 100%;**

**}**

**#app div div div {**

**position: relative;**

**height: auto;**

**}**

**h1, h2 {**

**margin-left: 4%;**

**margin-right: 4%;**

**}**

**ul {**

**list-style-type: none;**

**padding: 0;**

**}**

**label {**

**display: block;**

**margin: 20px;**

**font-size: 30px;**

**font-weight: bold;**

**}**

**nav a {**

**margin:12px;**

**text-transform: uppercase;**

**font-size: 10px;**

**}**

**button {**

**-webkit-transition-duration: 0.1s; /\* Safari \*/**

**transition-duration: 0.1s;**

**background-color: #F4595B;**

**border-radius: 8px;**

**border-bottom: 4px solid #C24648;**

**color: white;**

**padding: 15px 32px;**

**text-align: center;**

**text-decoration: none;**

**display: inline-block;**

**font-size: 16px;**

**font-family: 'Oxygen', sans-serif;**

**letter-spacing: 2px;**

**}**

**button:hover {**

**background-color: #FF7375;**

**border: none;**

**border-radius: 8px;**

**border-bottom: 4px solid #C24648;**

**color: white;**

**padding: 15px 32px;**

**text-align: center;**

**text-decoration: none;**

**display: inline-block;**

**font-size: 16px;**

**font-family: 'Oxygen', sans-serif;**

**letter-spacing: 2px;**

**}**

**button:active {**

**background-color: #C24648;**

**border: none;**

**border-radius: 8px;**

**border-bottom: 4px solid #C24648;**

**color: #CCC;**

**padding: 15px 32px;**

**text-align: center;**

**text-decoration: none;**

**display: inline-block;**

**font-size: 16px;**

**font-family: 'Oxygen', sans-serif;**

**letter-spacing: 2px;**

**}**

**Index.html:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<link rel="stylesheet" href="/styles.css">

<title>Learn ReactJS</title>

</head>

<body>

<main id="app"></main>

<script src="https://s3.amazonaws.com/codecademy-content/courses/React/react-course-bundle.min.js"></script>

<script src="/Parent.compiled.js"></script>

</body>

</html>