------------------------------------------------------- **index.js**

import React from "react";

import ReactDOM from "react-dom";

**import {createStore} from "redux";**

**import {Provider} from "react-redux";**

**import reducer from "./reducer";**

import App from "./App";

import "./index.css";

let destination = document.querySelector("#root");

**// STORE**

**let store = createStore(reducer);**

// store.subscribe(() => console.log(store.getState()))

ReactDOM.render(

**<Provider store={store}>**

<App />

**</Provider>,**

destination

);

------------------------------------------------------- **App.js**

import React from "react";

import Counter from "./Counter";

import View from './View';

const App = () => {

return (

<>

<Counter />

<View />

</>

)

};

export default App;

------------------------------------------------------- **reducer.js**

**//STATE**

let initialState = {

count : 0,

R : 0,

G : 0,

B : 0,

W : 100,

H : 100,

};

**//REDUCER**

**function reducer(state = initialState, action) {**

switch (action.type) {

case "**increase**":

return {...state, count: state.count + 1};

case "**decrease**":

return {...state, count: state.count - 1};

case "**addR**":

return {...state, R: state.R + action.value};

case "**addG**":

return {...state, G: state.G + action.value};

case "**addB**":

return {...state, B: state.B + action.value};

case "**addW**":

return {...state, W: state.W + action.value};

case "**addH**":

return {...state, H: state.H + action.value};

**default:**

**return state;**

}

**}**

export default reducer;

------------------------------------------------------- **Counter.js**

import React, {Component} from "react";

**import {connect} from "react-redux";**

class Counter extends Component {

render() {

return (

<div className="container">

<button className="buttons" onClick={**this.props.decreaseCount**}>-</button>

<span>{**this.props.countValue**}</span>

<button className="buttons" onClick={**this.props.increaseCount**}>+</button>

</div>

);

}

}

**//ACTIONS**

let **increaseAction** = **{type: "increase"}**;

let **decreaseAction** = **{type: "decrease"}**;

**function mapStateToProps(state) {**

return {

**countValue**: state.count,

};

**}**

**function mapDispatchToProps(dispatch) {**

return {

**increaseCount**: function() {

return **dispatch(increaseAction);**

},

**decreaseCount**: function() {

return **dispatch(decreaseAction)**;

}

};

**}**

export default **connect(mapStateToProps, mapDispatchToProps)(Counter);**

------------------------------------------------------- **View.js**

import React from "react";

**import {connect} from "react-redux";**

import Resizer from './Resizer';

function View (props) {

return (

<div

style = {{backgroundColor : `rgb(${props.**R**}, ${props.**G**}, ${props.**B**})`}} className = 'view'

>

<button onClick = {props.**addColorR**}>{props.**R**}</button>

<button onClick = {props.**addColorG**}>{props.**G**}</button>

<button onClick = {props.**addColorB**}>{props.**B**}</button>

<Resizer />

</div>

)

}

**//ACTIONS**

let **addActionR** = **{type: "addR", value: 15}**;

let **addActionG** = **{type: "addG", value: 15}**;

let **addActionB** = **{type: "addB", value: 15}**;

**function mapStateToProps(state) {**

return {

**R**: state.R,

**G**: state.G,

**B**: state.B,

};

**}**

**function mapDispatchToProps(dispatch) {**

return {

**addColorR**: function() {

return **dispatch(addActionR)**;

},

**addColorG**: function() {

return **dispatch(addActionG)**;

},

**addColorB**: function() {

return **dispatch(addActionB)**;

}

};

**}**

export default **connect(mapStateToProps, mapDispatchToProps)(View)**;

------------------------------------------------------- **Resizer.js**

import React from "react";

**import {connect} from "react-redux";**

function Resizer ({**W**, **H**, **addW**, **addH**}) {

return (

<div className = 'resizer'>

<div

style = {{

width : `${**W**}px`,

height : `${**H**}px`

}}

className = 'resizer\_\_square'

></div>

<div className = 'resizer\_\_buttons'>

<button onClick = {**addW**} className = 'resizer\_\_change'>+W</button>

<button onClick = {**addH**} className = 'resizer\_\_change'>+H</button>

</div>

</div>

)

}

**//ACTIONS**

let **addActionW** = {type: "**addW**", value: 10};

let **addActionH** = {type: "**addH**", value: 10};

**function mapStateToProps(state) {**

return {

**W**: state.W,

**H**: state.H,

};

**}**

**function mapDispatchToProps(dispatch) {**

return {

**addW**: function() {

return **dispatch(addActionW)**;

},

**addH**: function() {

return **dispatch(addActionH)**;

}

};

}

export default **connect(mapStateToProps, mapDispatchToProps)(Resizer)**;