

# Hello Redux Lab

We're not ready to learn React yet, but a sneak preview wouldn't hurt. So let's create a React application and then use some starters I'll provide you.

1. Open a bash window and cd to the directory where you unzipped the files from github.
2. run these commands:  

```
npx create-react-app signup  
cd signup  
npm install materialize-css  
cp ../starters/* src  
npm start
```
3. You should be seeing a registration page. Got it working? Good. Let's move on.

## Adding a minimal redux store

4. Install redux via npm
5. In the src directory, create a new file called store.js..
6. In store.js, go ahead and create a function called reducer. It should received two parameters, store and action and return store. Yes, that same store it received.
7. Also create an object called initialState. It can be an empty object.
8. Create a const called store by running this JavaScript:  

```
export const store = createStore(reducer, initialState);
```
9. Don't forget to import createStore from redux at the top of the file.  

```
import { createStore } from 'redux';
```
10. Run and test again. It should be compiling but doing nothing different.

## Using it in a React component

11. Find a file called App.js in your project. In it, import your store object.
12. Add this to the App class:  

```
constructor() {  
  super();  
  this.state = store.getState();  
  console.log("App state", this.state);  
}
```
13. Run and test. Did you get something in the console?

## Dispatching an action

14. Edit Register.js. Import store at the top like you did in App.js.
15. Look for a method called handleClick. In there, call ...
16. `store.dispatch();`
17. Run and test. It should run, but nothing different should be happening.
18. Now edit store.js again and add a line to your dispatch function. You should `console.log("In the reducer", action);`
19. This time when you test it and click the button you should see something in the console. Give it a try.

Once you've got your store created and a reducer running, you can be finished.