# Lab 15: React

Step 1: Initialize our React App

* npm update -g
* npx create-react-app lab15
* cd lab15
* npm start

npx comes with node and npm. It allows to run scripts. “create-react-app” is a package that creates an initial almost empty React app for us.

Step 2: Clean the initial code

1. Clean index.html under the public folder by removing comments - and setting a title to your App.
2. Clean the App.js component by removing the initial UI content.
3. Add a header, a main and a footer to the returned div.
4. Create a variable (banner = “Lab 15 | React”) before the return and inject it inside the returned HTML (JSX) using {banner}.

Step 3: Build our App Layout

1. Create a folder “components” under “src”. Create a new file “Header.js”. Initialize it to:

const Header = () => {

  const banner = "Lab 1 - Learn React"

  return(

    <header>

      {banner}

    </header>

  );

}

export default Header;

1. Use this new component inside App.js
2. Create components “Main” and “Footer”.

Step 4: Using props (state)

1. Add “props” as argument to the four function components.
2. In App.js, send the banner value to the Header component:

        <Header banner="Lab 15 - Learn React!"/>

1. Read the “banner” prop from the Header component and display it in the header.

Step 5: Create a simple TODO list App

1. Create an array of tasks in App.js and pass in in the props of the Main component.
2. In Main, Create a table that displays the array of TODO tasks (simple string objects).

**END**