

React 1 Workshop

Step 1: Run Demo

Follow the steps in **README.txt** to get the **hello-2** demo running.

- Navigate to the **react-demo** directory.
- Run a Python web server with `python -m SimpleHTTPServer 5000`.
- Visit the URL <http://localhost:5000/hello-2> <<http://localhost:5000/hello-2>>.

You can also visit the other Hello World demo at this URL <http://localhost:5000/hello> <<http://localhost:5000/hello>>.

Step 2: A New Component

- Add the following component to the file **react-demo/hello-2/hello.jsx**.

```
class TodoList extends React.Component {  
  render() {  
    return <p>Here is a todo list</p>  
  }  
}
```

- Modify **react-demo/hello-2/index.jsx** to render your *new* component.

```
ReactDOM.render(  
  <TodoList />,  
  document.getElementById("root")  
)
```

Rejoice! A new component.

Step 3: Add Todo Items

- Add the following component to the file **react-demo/hello-2/hello.jsx**.

```
class TodoItem extends React.Component {  
  render() {  
    return <li>Here is a todo list item</li>  
  }  
}
```

- Modify the **render** function of your **TodoList** render some **TodoListItems**.

```
class TodoList extends React.Component {
  render() {
    return <div>
      <h1>Here is a todo list</h1>
      <TodoItem />
      <TodoItem />
      <TodoItem />
    </div>
  }
}
```

Step 4: Using Props

In reality, a ***TodoItem*** should have it's todo content in a prop.

- Edit the ***TodoItem*** component to render using a item prop.

```
class TodoItem extends React.Component {
  render() {
    return <li> {this.props.item} </li>
  }
}
```

Then, modify your ***TodoItems*** that you're already creating in the ***TodoList render*** function.

```
class TodoList extends React.Component {
  render() {
    return <div>
      <h1>Here is a todo list</h1>
      <TodoItem item="laundry" />
      <TodoItem item="take out trash" />
      <TodoItem item="do dishes" />
    </div>
  }
}
```

Step 5: Another Prop

Let's add another prop to our items– ***important***.

Then, modify your ***TodoItems*** that you're already creating in the ***TodoList render*** function.

```
class TodoList extends React.Component {
  render() {
    return <div>
      <h1>Here is a todo list</h1>
      <TodoItem item="laundry" important={true} />
      <TodoItem item="take out trash" important={false} />
      <TodoItem item="do dishes" important={true} />
    </div>
  }
}
```

```
    }  
  }
```

Now, change the logic for how ***TodoItems*** render themselves.

```
class TodoItem extends React.Component {  
  render() {  
    if (this.props.important){  
      return <li><b>{this.props.item}</b></li>  
    } else {  
      return <li>{this.props.item}</li>  
    }  
  }  
}
```

The End

Thanks for following along.