## **Your First Component:**

\*\* there is a notes.js file in each exerecise in the repo that have all the things covered in there for referrence on syntax etc

This repo uses commonJS to require things

\*\*\*\*\*\*\*https://github.com/staygrimm/sort-by#example\*\*\*\* sortBy library that rocks!!!

when writing html elements as functions in React you can use two diff styles, one being JSX which is generally preferred as it is more clear

```
6 var { h1, div, ul, li } = React.DOM;
8 \text{ } var \text{ element} = (
     div({}),
       h1({}, "Hello"),
       ul({},
11
         li({}, "Mark with C"),
12
         li({}, "Marc with K")
13
14
16);
17
19 \ var \ element2 = (
   <div>
21
      <h1>Hello from JSX</h1>
      ul>
23
         Jewels
         Julia
25
      </div>
27 );
29 React.render(element, document.body);
```

```
2 var App = React.createClass({
    render () {
        <div> // you always have to wrap ui in a div element i
          <h1>Hello from JSX</h1>
          ul>
            Jewels
           Julia
          </div>
12
    }
13
14 });
15
18 App = React.createFactory(App);
20 React.render(App(), document.body);
```

sortBy library that rocks!!! \*\*\*\*\*\*\*<u>https://github.com/staygrimm/sort-by#example</u>\*\*\*\*\*\*\*\*\*

The nice thing about React is you really just can use JavaScript to do what you need such as filter, sort and map instead of relying on methods built into the framework such as AngularJS does

## **Props:**

\*\* MOST IMPORTANT THING TO UNDERSTAND properties that you pass into a component

```
1 var React = require('react');
2
3 var input = <input type="checkbox" />
4 //same as :
5 //React.DOM.input({type: "checkbox"})
6
7 var Gravatar = React.createClass({
8    render () {
9        return <span>{this.props.email}</span>;
10    }
11 });
12
13 var element = <Gravatar email="giulz42@gmail.com" />
14
15 React.render(element, document.body);
16
```

`React Proptypes` in google search and you get this page: <a href="https://facebook.github.io/react/docs/reusable-components.html">https://facebook.github.io/react/docs/reusable-components.html</a>

which has many proptypes listed