

React 102

# Stateless functional components

"This function is a valid React component because it accepts a single "props" object argument with data and returns a React element. We call such components "functional" because they are literally JavaScript functions."

```
1 import React from 'react';
2
3 class MyComponent extends React.Component {
4   render() {
5     return(
6       <h1>Hi</h1>
7     )
8   }
9 }
10
11 const MyStatelessFunctionalComponent = () => {
12   return(
13     <h1>Hi</h1>
14   )
15 }
16
17 export {MyStatelessFunctionalComponent, MyComponent}
18
```

```
1 import React, { Component } from 'react';
2 import {MyComponent, MyStatelessFunctionalComponent} from './MyComponent'
3
4 class App extends Component {
5
6   render() {
7     return (
8       <div>
9         <MyComponent />
10        <MyStatelessFunctionalComponent />
11      </div>
12    );
13  }
14 }
15
16 export default App;
17
```

# ES6 stuff

“Object Literals”

```
const key = 5;  
const anotherValue= 6  
const obj = {  
  key: key,  
  anotherKey: anotherValue  
}
```

==

```
const key = 5;  
const anotherValue= 6  
const obj = {key, anotherKey}
```

# ES6 stuff

“Destructuring objects”

```
const obj = {value: 5,  
doNotCare: 10}
```

```
const {value} = obj;
```

```
console.log(value) // 5
```

## Destructuring props

```
1  import React from 'react';
2
3  const MyComponent = (props) => {
4    return(
5      <h1>Hi {props.name}</h1>
6    )
7  }
8
9  export {MyComponent}
10
```

```
1  import React from 'react';
2
3  const MyComponent = ({name}) => {
4    return(
5      <h1>Hi {name}</h1>
6    )
7  }
8
9  export {MyComponent}
10
```

# ES6 stuff

“Import/Export”

Exporting object {MyComponent: MyComponent}

```
1  import React from 'react';
2
3  const MyComponent = () => {
4    return(
5      <h1>Hi</h1>
6    )
7  }
8
9  export {MyComponent}
10
```

Importing MyComponent from obj exported

```
1  import React, { Component } from 'react';
2  import {MyComponent} from './MyComponent'
3
4  class App extends Component {
5
6    render() {
7      return (
8        <div>
9          <MyComponent />
10        </div>
11      );
12    }
13  }
14
15  export default App;
16
```

## “Import/Export” default

Does not matter what you import as.

```
1  import React from 'react';
2
3  const MyComponent = (props) => {
4    return(
5      <h1>Hi {props.name}</h1>
6    )
7  }
8
9  export default MyComponent
10
```

```
1  import React, { Component } from 'react';
2  import Whatever from './MyComponent'
3
4  class App extends Component {
5
6    render() {
7      return (
8        <div>
9          <Whatever name='bob' />
10        </div>
11      );
12    }
13  }
14
15  export default App;
16
```

# Workshop

- Take filter list from last workshop:  
<https://github.com/tswayne/react-workshop/tree/solution>
- Move components into own files
- Turn components into functional components
- Turn filter list into shopping/todo list that
  - Has an “add” button beside input
  - When you click “add” text from input is added to list
  - List is displayed below input
  - When you click on a list item it crosses/uncrosses off item