



REACT

FUNCTIONAL COMPONENTS

```
function Welcome(props) {  
  return (  
    <p>Hello, {props.name}</p>  
  );  
}
```

CLASS COMPONENTS

```
class Welcome extends React.Component {  
  render() {  
    return (  
      <p>Hello, {this.props.name}</p>  
    );  
  }  
}
```

RENDERING A COMPONENT

`ReactDOM.render(element, target);`

JSX

JavaScript expressions

Wrap in curly braces
`Hello, {formatName(user)}!`

Attribute names

Camel case, using JS standards
`<div className="hidden"></div>;`

Attribute values

String literals in quotes; expressions without quote
`<div tabIndex="0"></div>;`
`;`

Empty tags

Close with space and slash
`;`

BUILDING A LIST

Usage:

```
const name = array.map((element) =>
  <li>{element}</li>
);
return (
  <ul>{name}</ul>
);
```

Example:

```
const listItems = numbers.map((number) =>
  <li>{number}</li>
);
return (
  <ul>{listItems}</ul>
);
```

CREATING A COMPONENT HIERARCHY

1. Start with a mock
2. Draw a box around each item that does one thing (including groups)
3. Name the boxes (semantically)
4. Make a hierarchy

- **FilterableProductTable**
 - **SearchBar**
 - **ProductTable**
 - » **ProductCategoryRow**
 - » **ProductRow**

Name	Price
Sporting Goods	
Football	\$49.99
Baseball	\$9.99
Basketball	\$29.99
Electronics	
iPod Touch	\$99.99
iPhone 5	\$399.99
Nexus 7	\$199.99