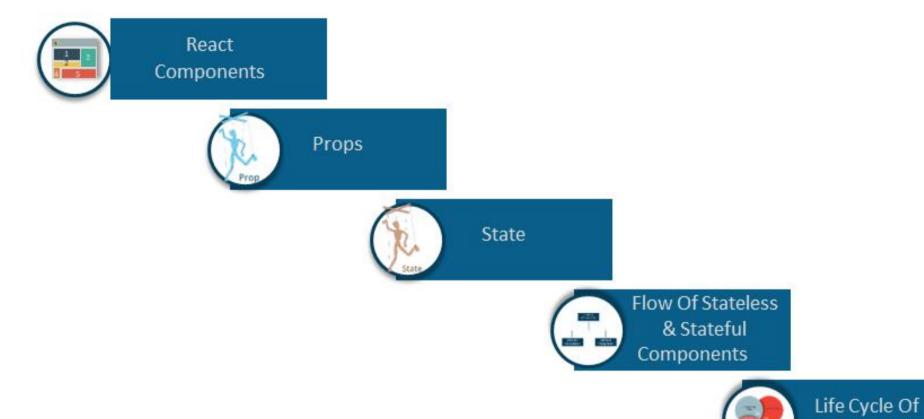
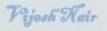


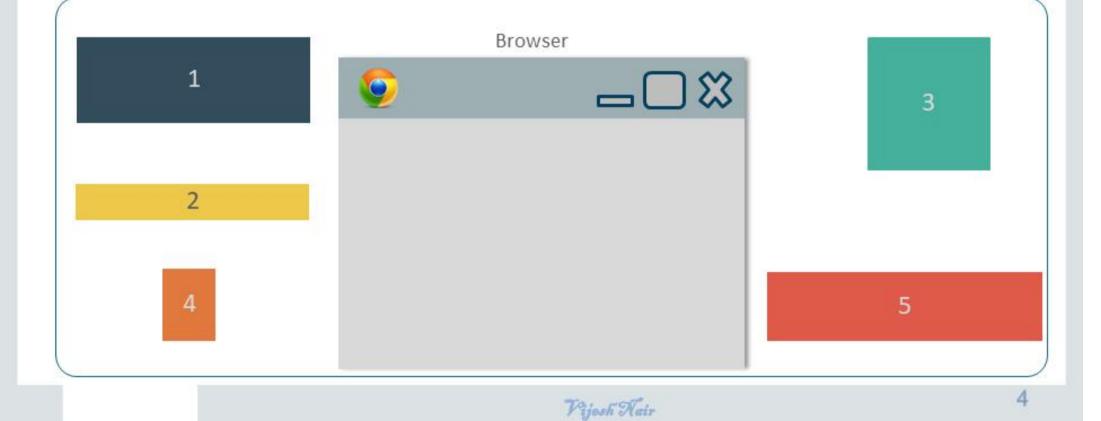
Agenda



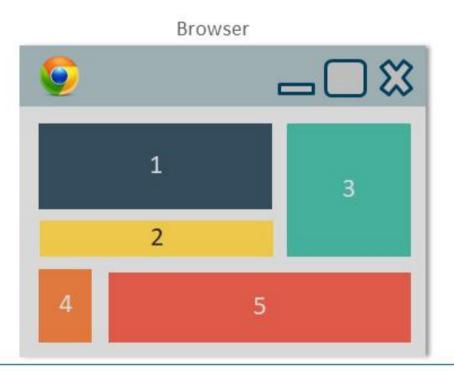
Components



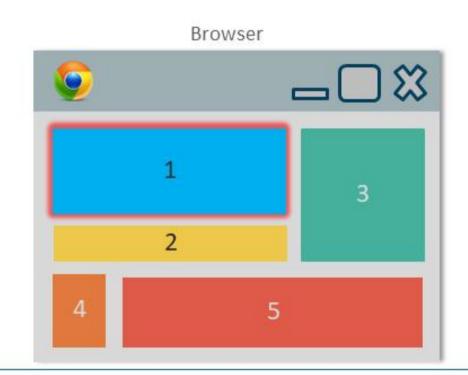
In React everything is a component



All these components are integrated together to build one application

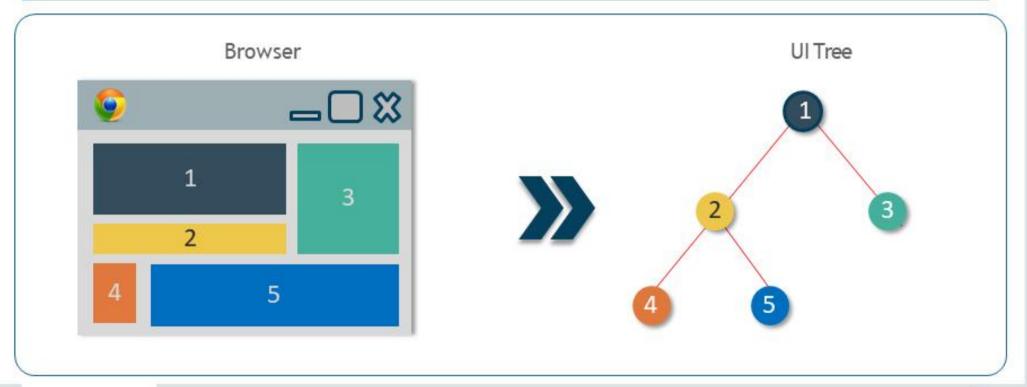


We can easily update or change any of these components without disturbing the rest of the application



React Components – UI Tree

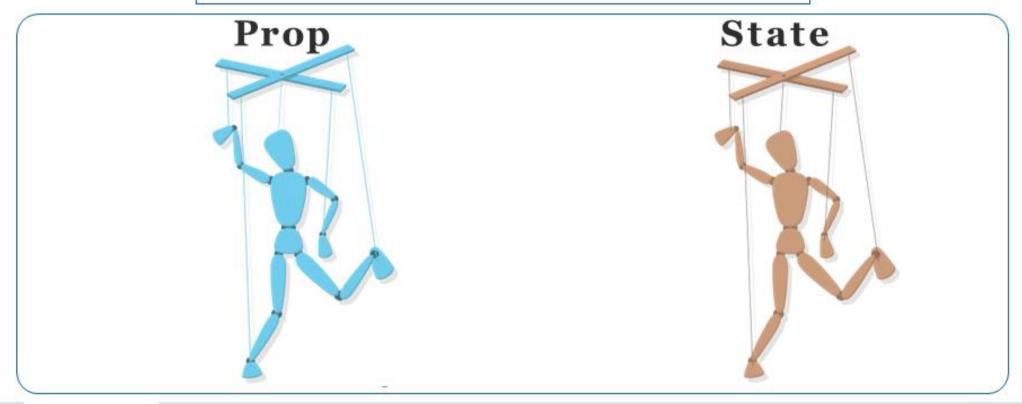
Single view of UI is divided into logical pieces. The starting component becomes the root and rest components become branches and sub-branches.



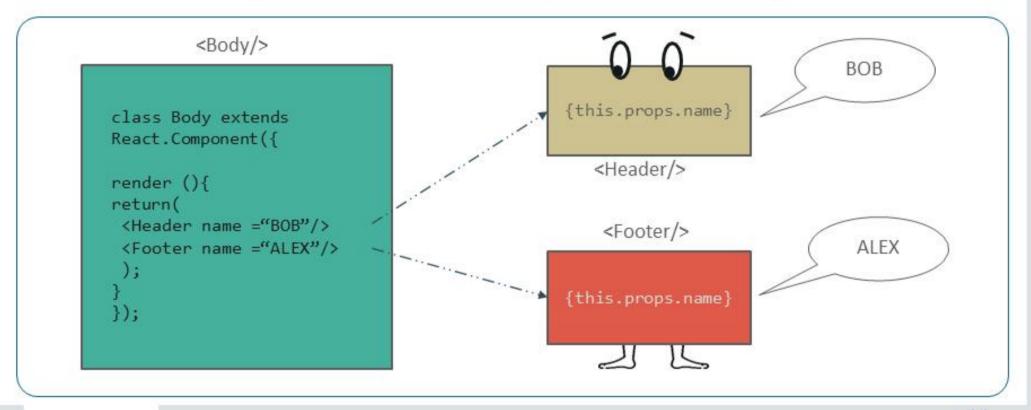
ReactJS Components – Sample Code

Each component returns ONE DOM element, thus JSX elements must be wrapped in an enclosing tag

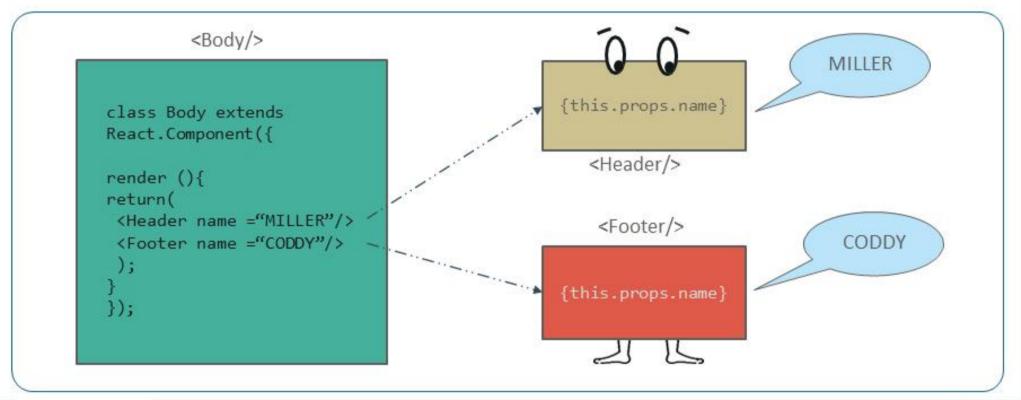
React components are controlled either by Props or States

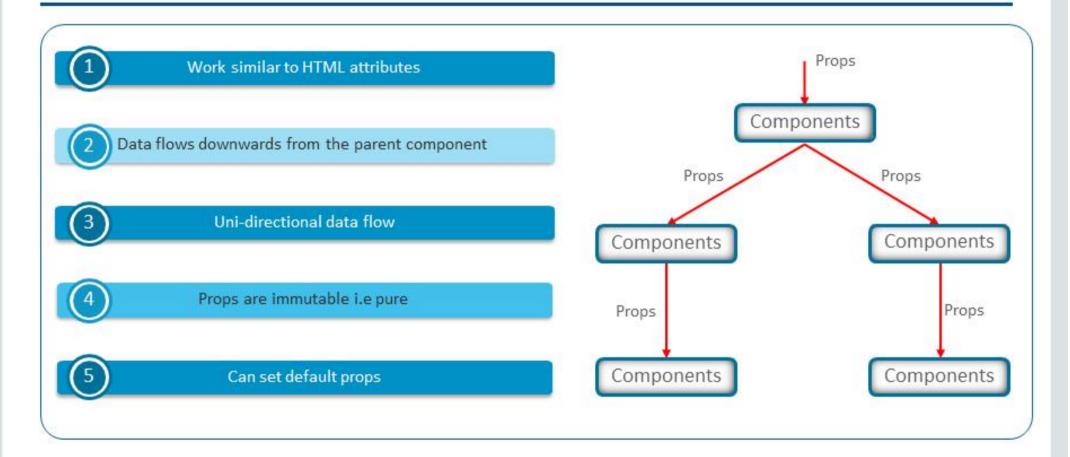


Props help components converse with one another.



Using Props we can configure the components as well

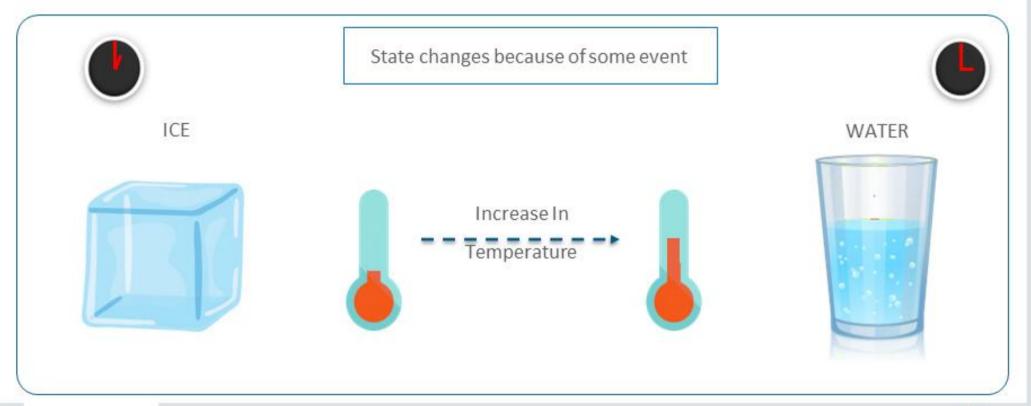


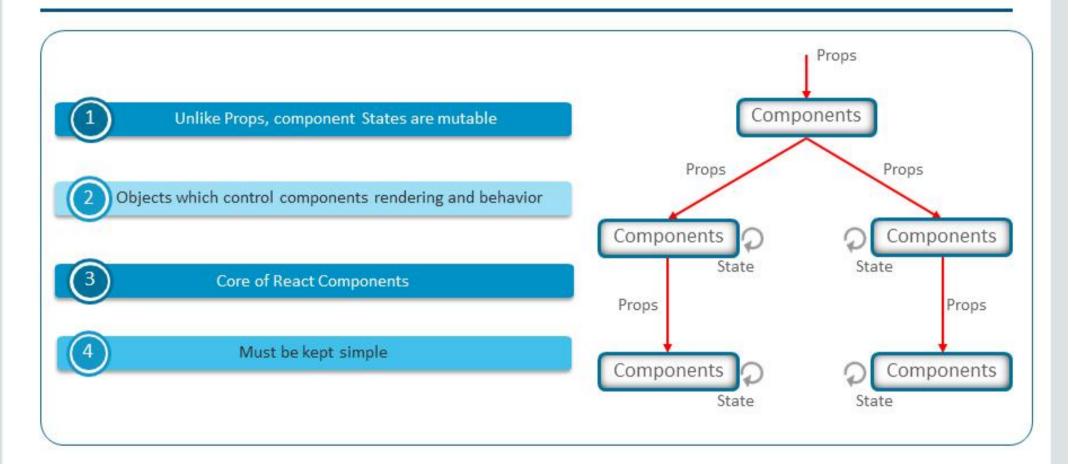


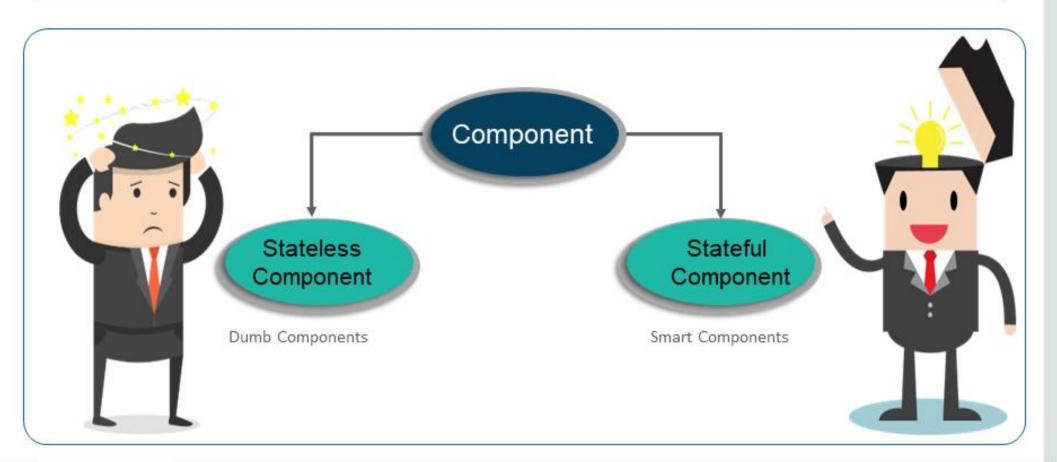
ES5

```
ES5
              var Header = React.createClass({
                      render: function () {
                      return (
                           <h2>Head Name: {this.props.name} </h2>
                      );
Child Components
              });
                                                                            Receiving Props
              var Footer = React.createClass({
                      render: function () {
                      return (
                           <h2>Footer Name: {this.props.name}</h2>
                      );
              1);
              ReactDOM.render (
                  <Body/>, document.getElementById('container')
              );
```

Components can change, so to keep track of updates over the time we use state





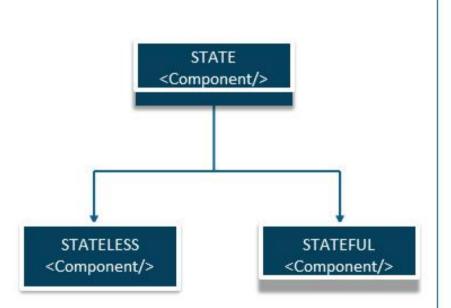


Stateless

- · Calculates states internal state of components
- Contains no knowledge of past, current and possible future state changes

Stateful

- Core which stores information about components state in memory
- Contains knowledge of past, current and possible future state changes

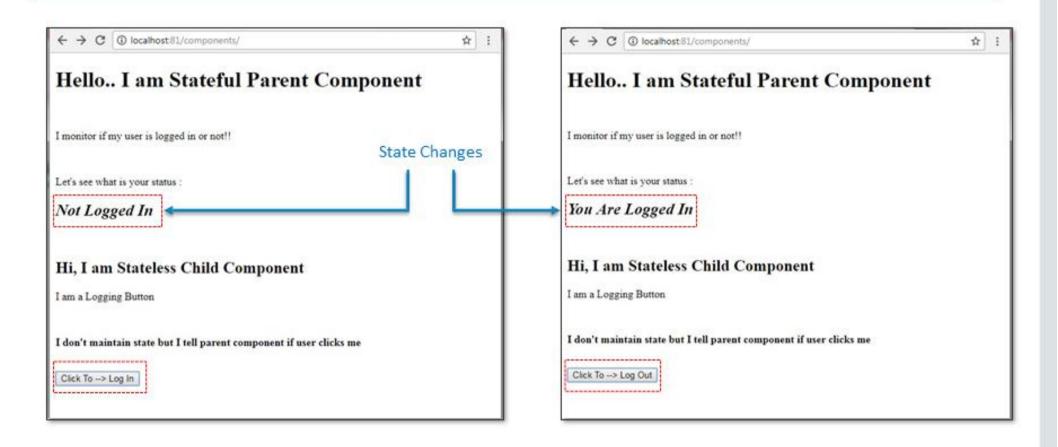




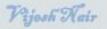
```
ES6
                           Parent Component
class MyApp extends React.Component {
   constructor (props) {
      super(props);
      receiveClick() {
      this.setState({ isLoggedIn: !this.state.isLoggedIn });
                                                 Changing State
```

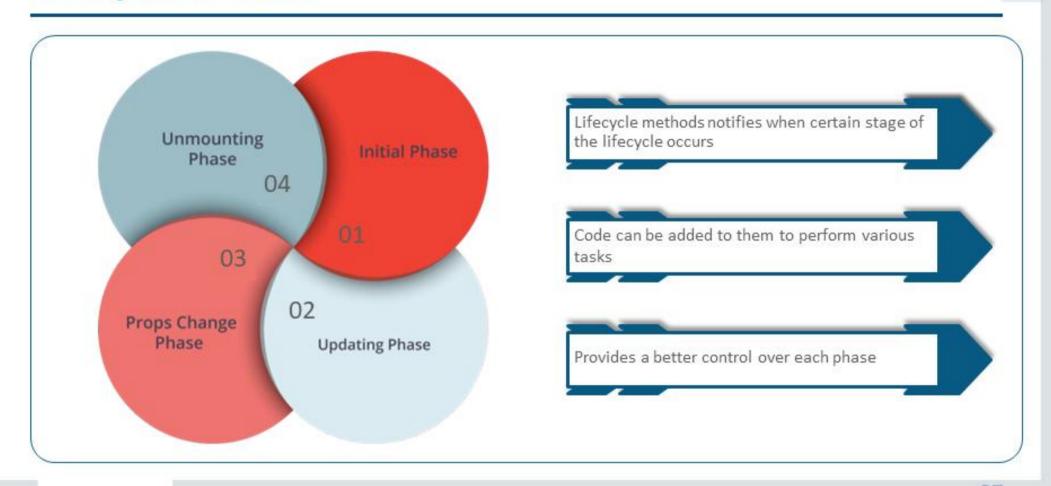
```
ES6
render() {
    return (
        <div>
        <h1>Hello.. I am Stateful Parent Component</h1><br/>
        I monitor if my user is logged in or not!! <br/>
        Let's see what is your status : <h2><i>{this.state.isLoggedIn ?
          'You Are Logged In': 'Not Logged In'}</i><br/>
        <h2>Hi, I am Stateless Child Component</h2>
        I am a Logging Button<br/>
        <b>I don't maintain state but I tell parent component if user clicks me
        </b><br/>
   <MyButton click={this.receiveClick.bind(this)} isLoggedIn= {this.state.isLoggedIn}</pre>
           </div>
       );
                                                                   Passing Props To Child
                                                                   Component
```

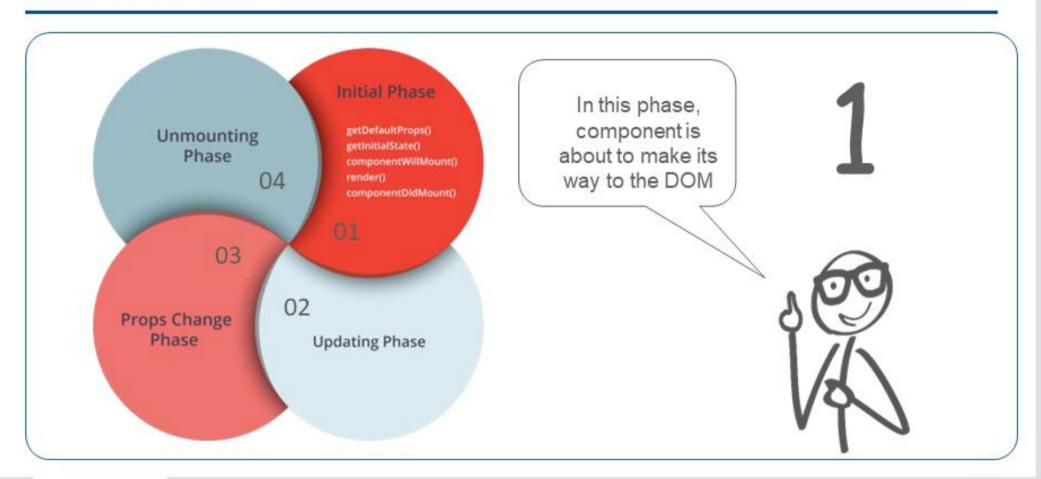
```
Child Component
                                                                                  ES6
const MyButton = (props) => {
                                                            Receiving Props From
    return (
                                                            Parent Component
        <div>
             <button onClick={() => props.click()}>
                 Click TO ---> { props.isLoggedIn ? 'Log Out' : 'Log In'}
             </button>
        </div>
    );
};
ReactDOM.render(
    <MyApp />,
    document.getElementById('content')
);
```

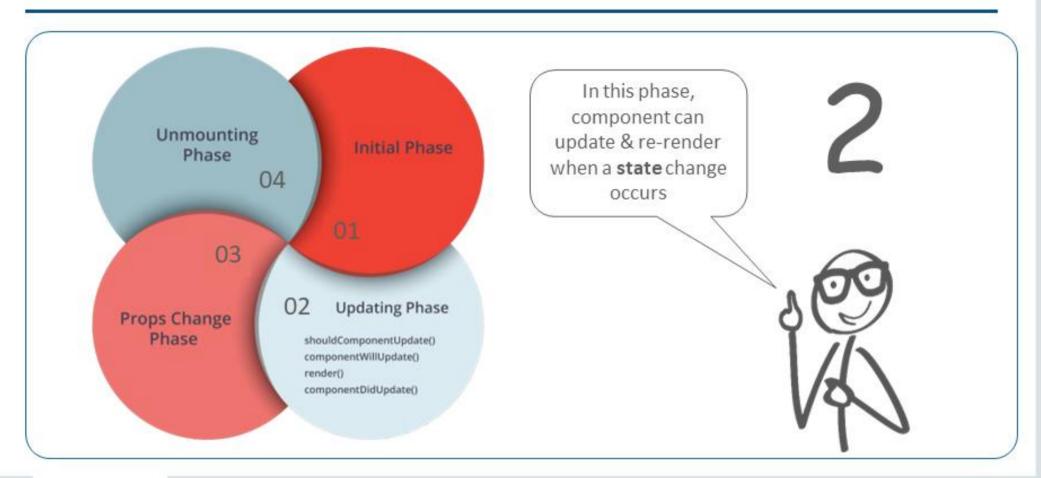


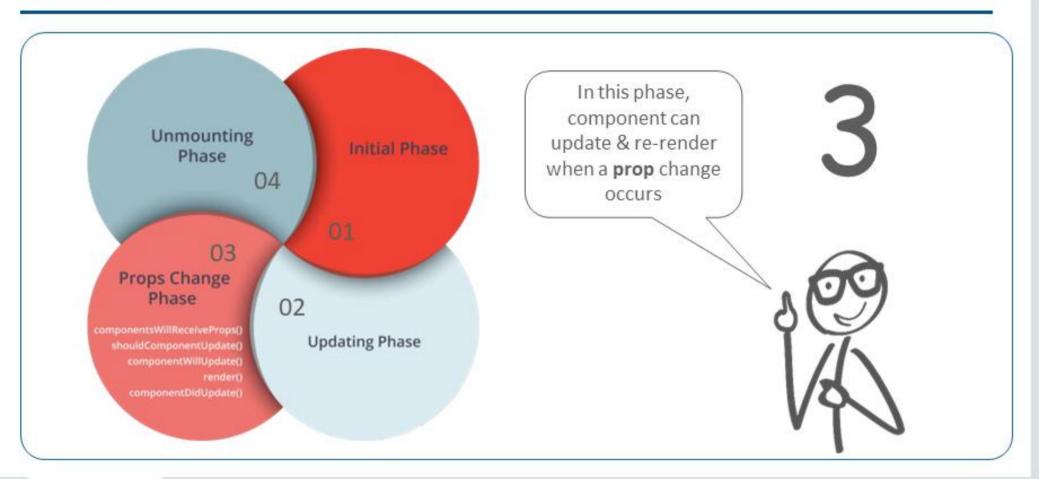
Component Lifecycle

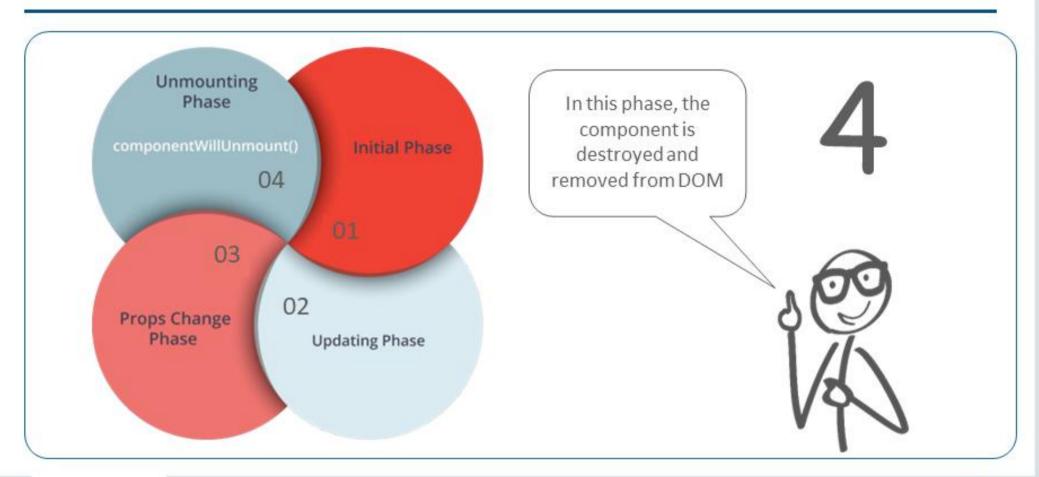




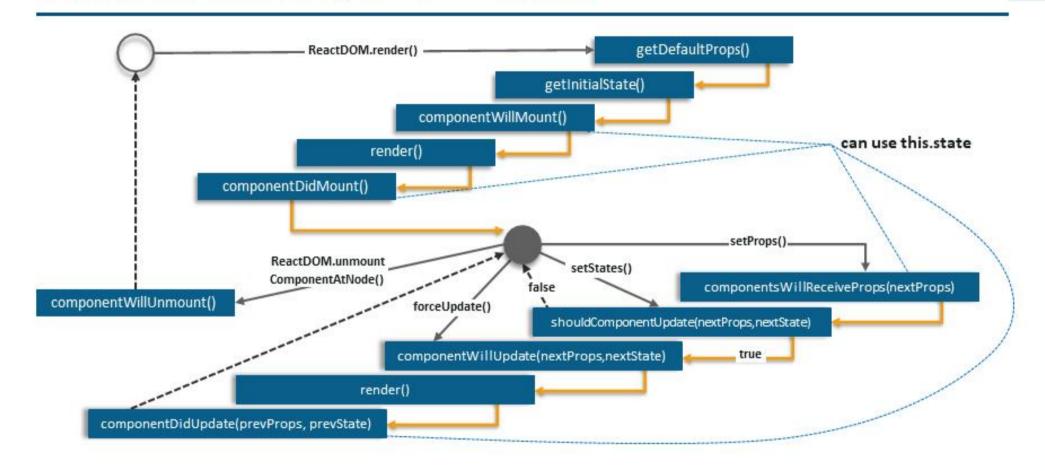








Component Lifecycle In A Glance



Thank You!