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**declarative**

**interactive**

**stateful**

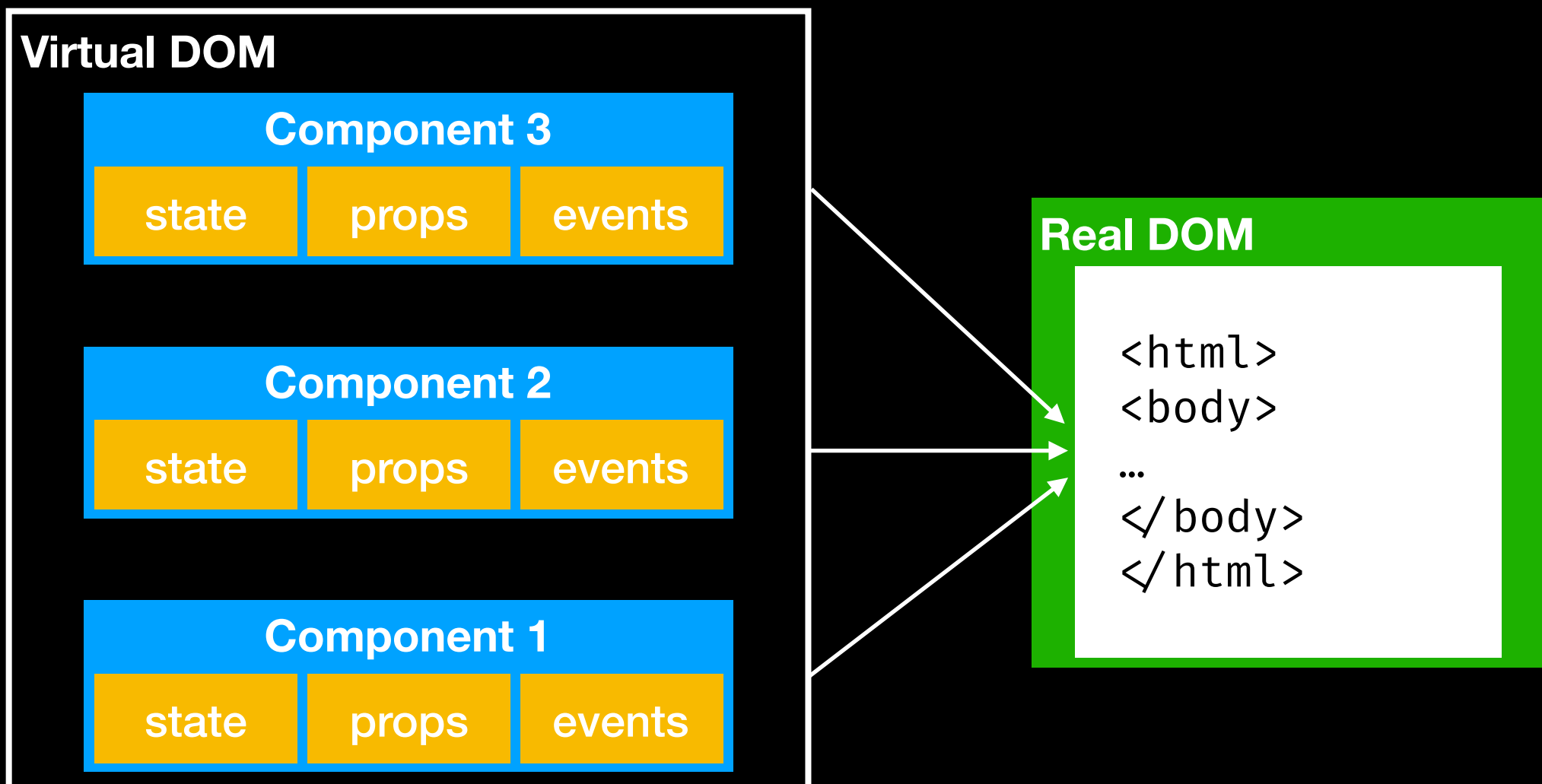
**reusable**



```
class Welcome extends React.Component {  
  render() {  
    return (  
      <div>  
        Welcome to {this.props.name}!  
      </div>  
    );  
  }  
}
```

```
ReactDOM.render(  
  <Welcome name="WDW 2018" />,  
  node  
)
```

**<https://tinyurl.com/wdw-react-playground>**



**this.props**

initialize a component

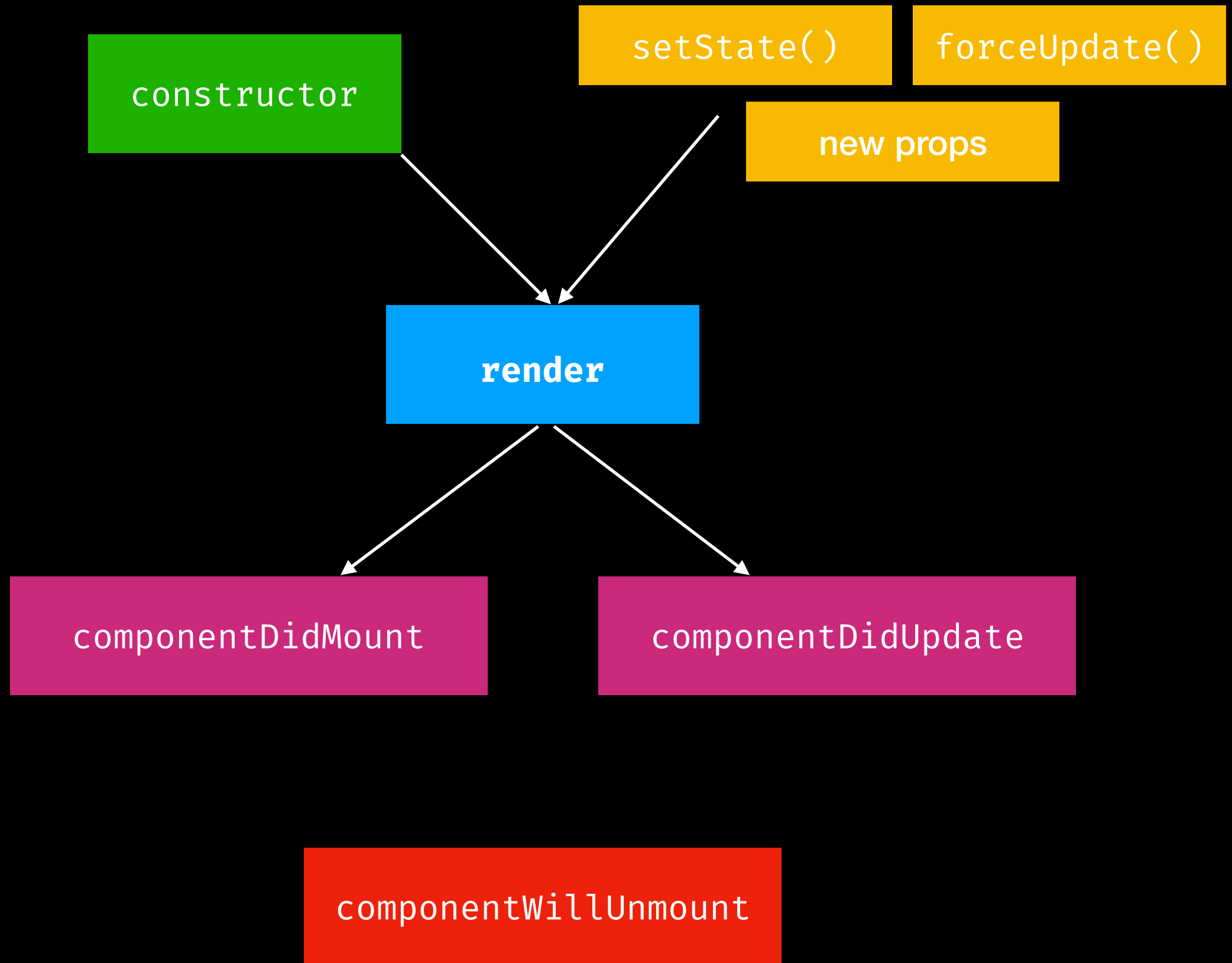
never mutated

**this.state**

has data that changes

this.setState()





**render()**

draws component

evaluates JSX

uses props and state

**componentDidMount()**

called after display

often used to fetch data

doesn't replace render()

```
class Timer extends React.Component {
  constructor(props) {
    super(props);
    this.state = { seconds: 0 };
  }

  tick() {
    this.setState(state => ({
      seconds: state.seconds + 1
    }));
  }

  componentDidMount() {
    this.interval = setInterval(() => {
      this.tick();
    }, 1000);
  }

  componentWillUnmount() {
    clearInterval(this.interval);
  }

  render() {
    return (
      <div>
        Seconds: {this.state.seconds}
      </div>
    );
  }
}

ReactDOM.render(<Timer />, node);
```

**<https://tinyurl.com/wdw-react-tweets>**

**<https://tinyurl.com/wdw-react-markdown>**



install Node.js

```
npx create-react-app my-app
```

```
cd my-app
```

```
npm start
```

**<https://reactjs.org/docs/getting-started.html>**

<https://redux.js.org>

<https://facebook.github.io/flux/>

<https://facebook.github.io/react-native/>