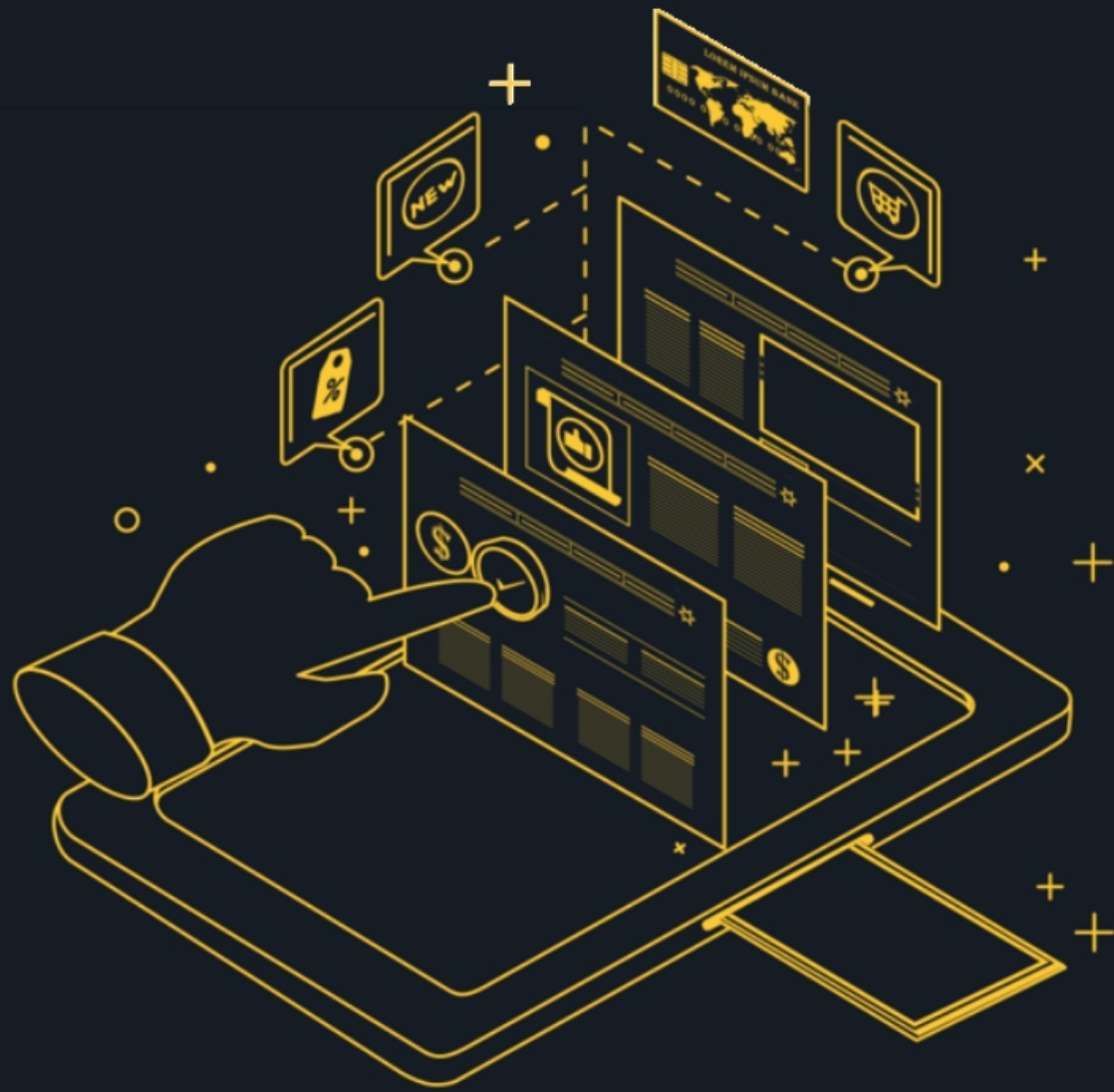




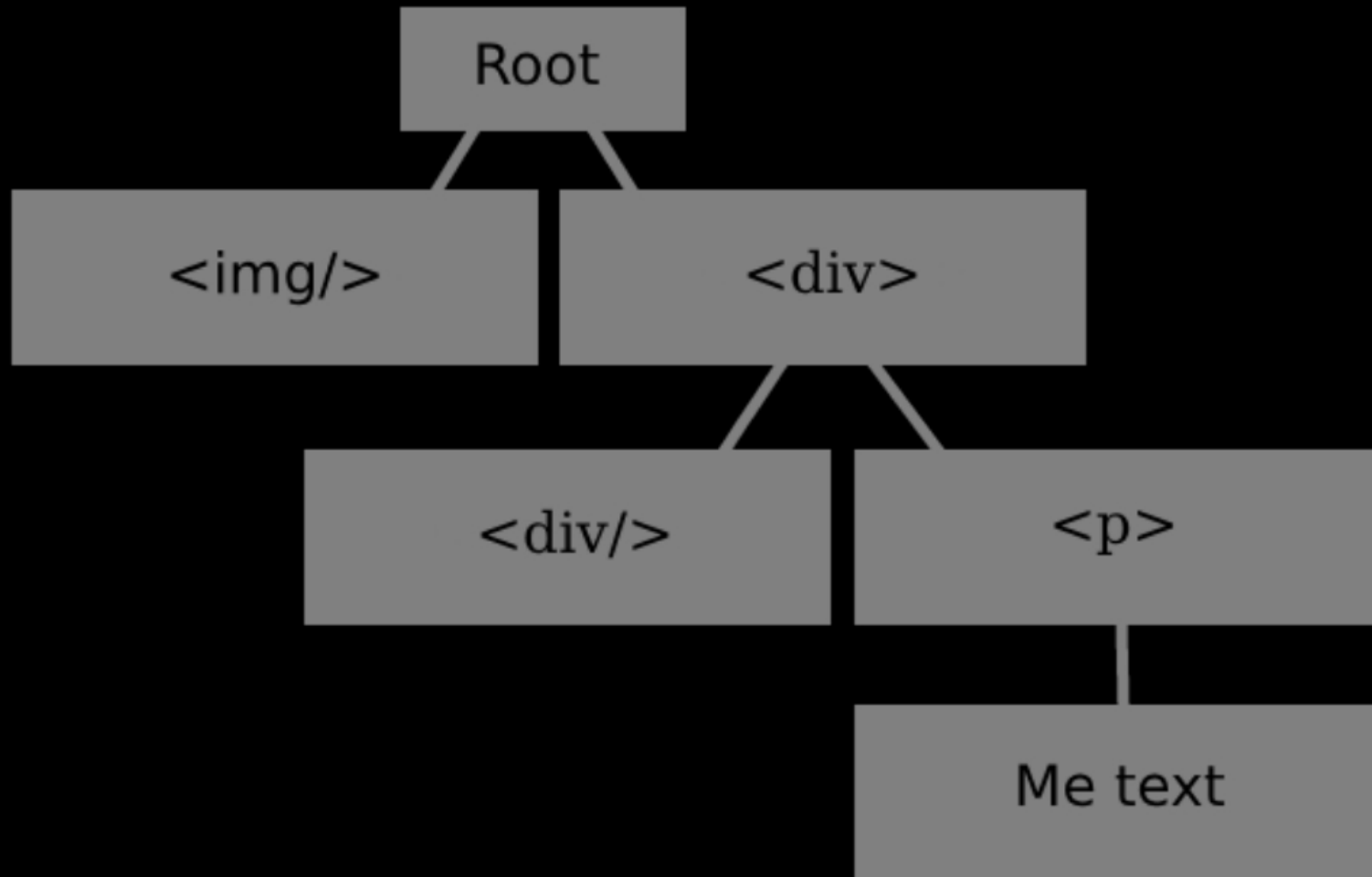
WTF is React?

Don't act, react

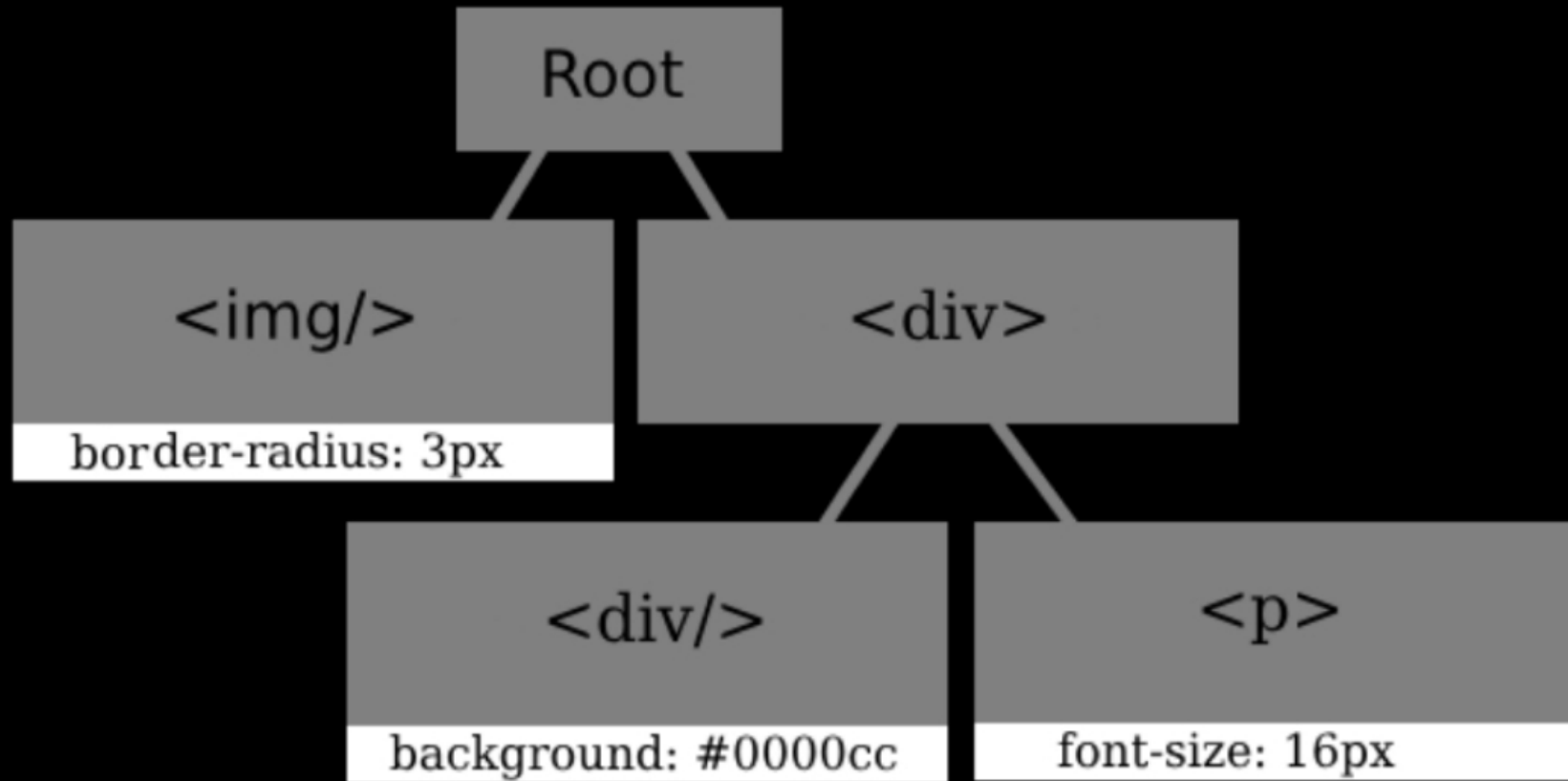


```
<body>
  <img class="image" />
  <div>
    <div class="nested-div" />
    <p class="text">Me text</p>
  </div>
</body>
```

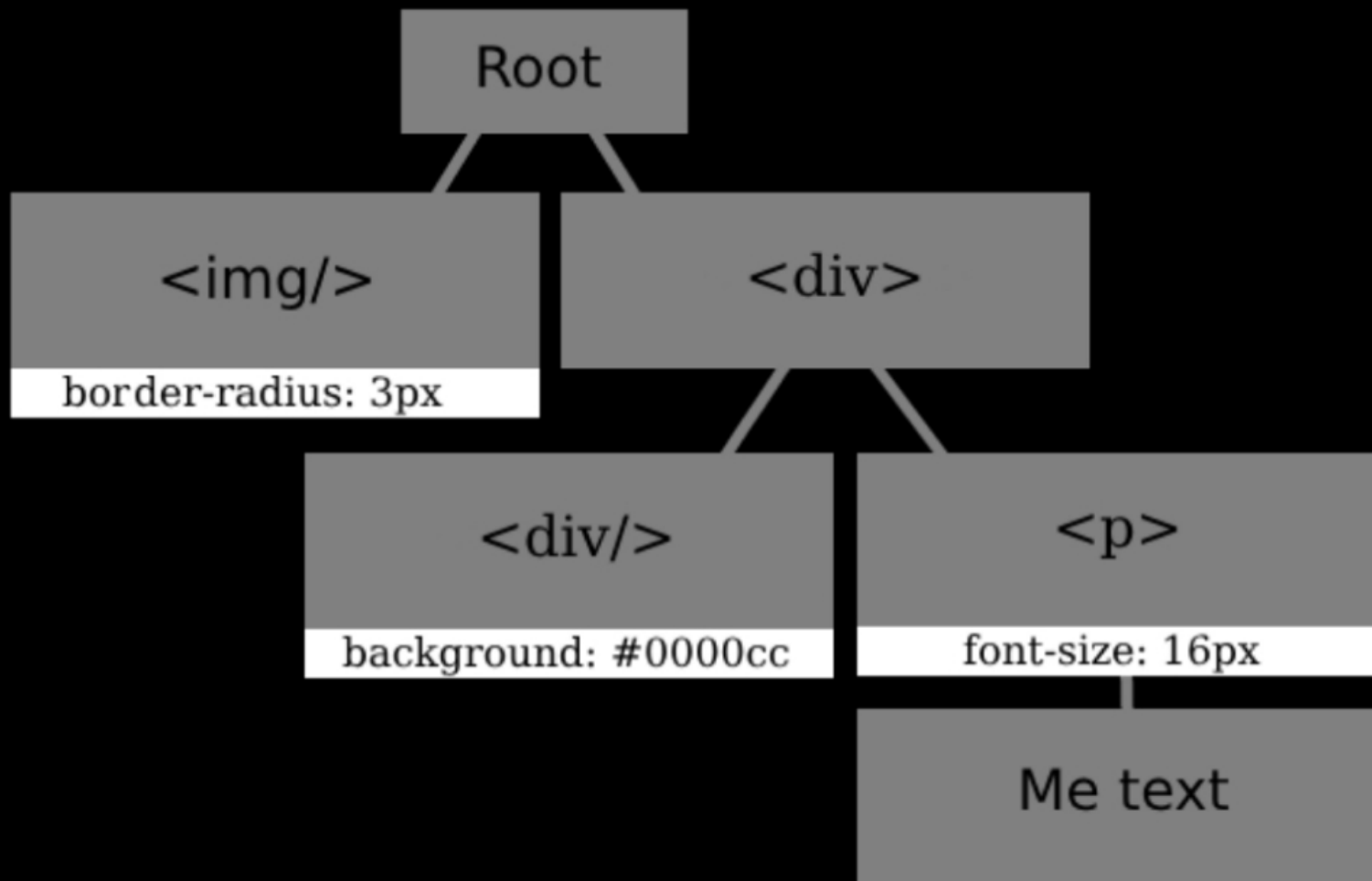
DOM



CSSOM

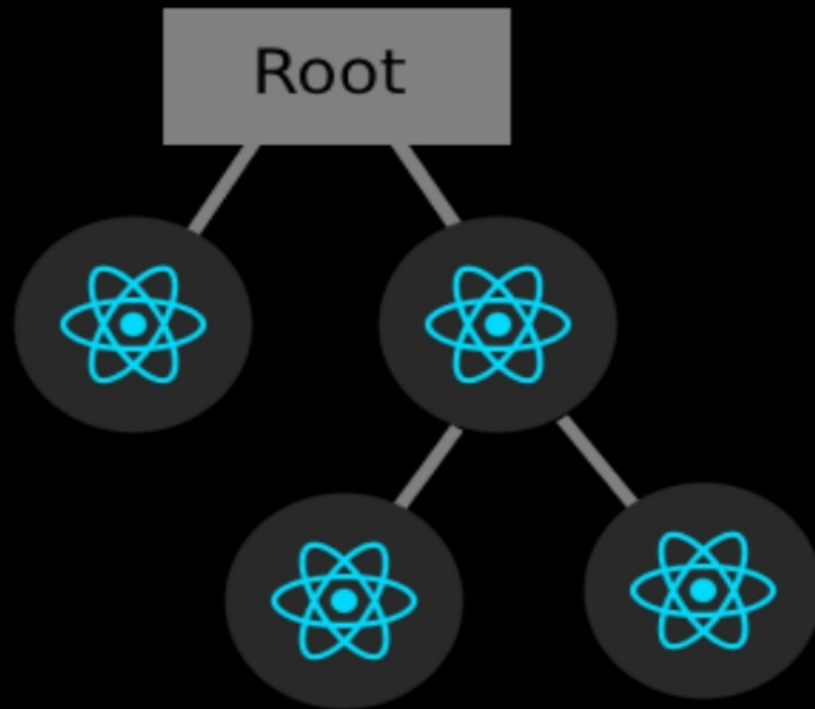


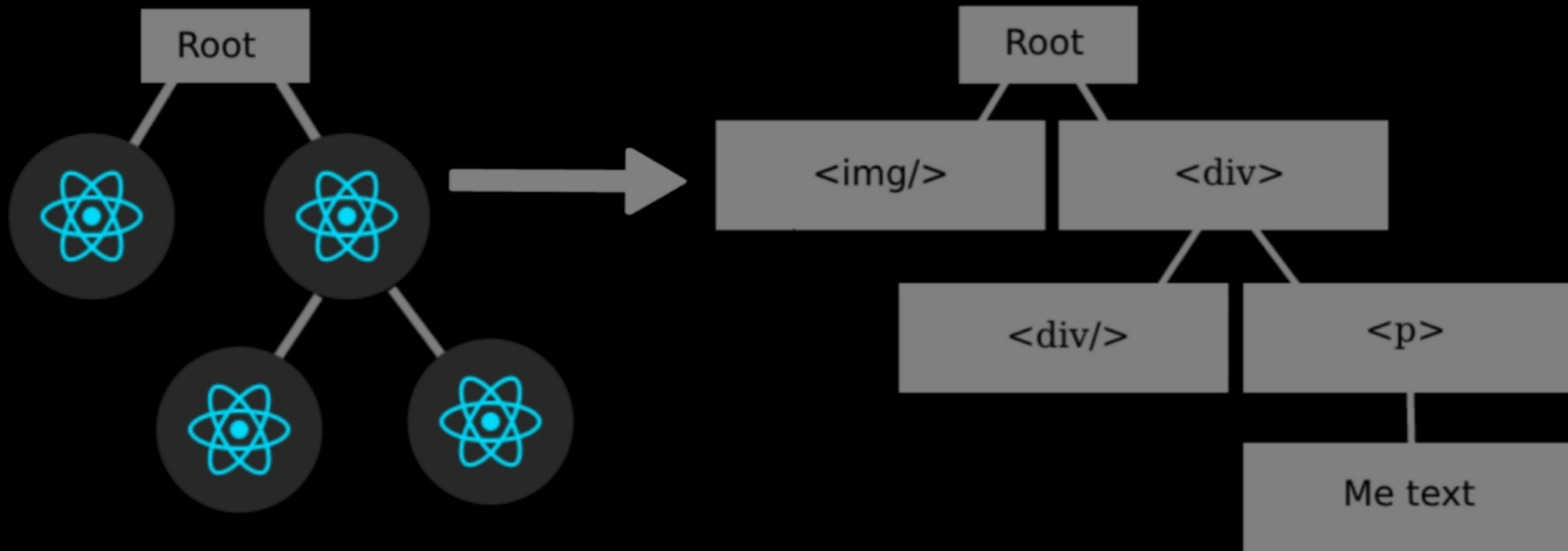
Render tree

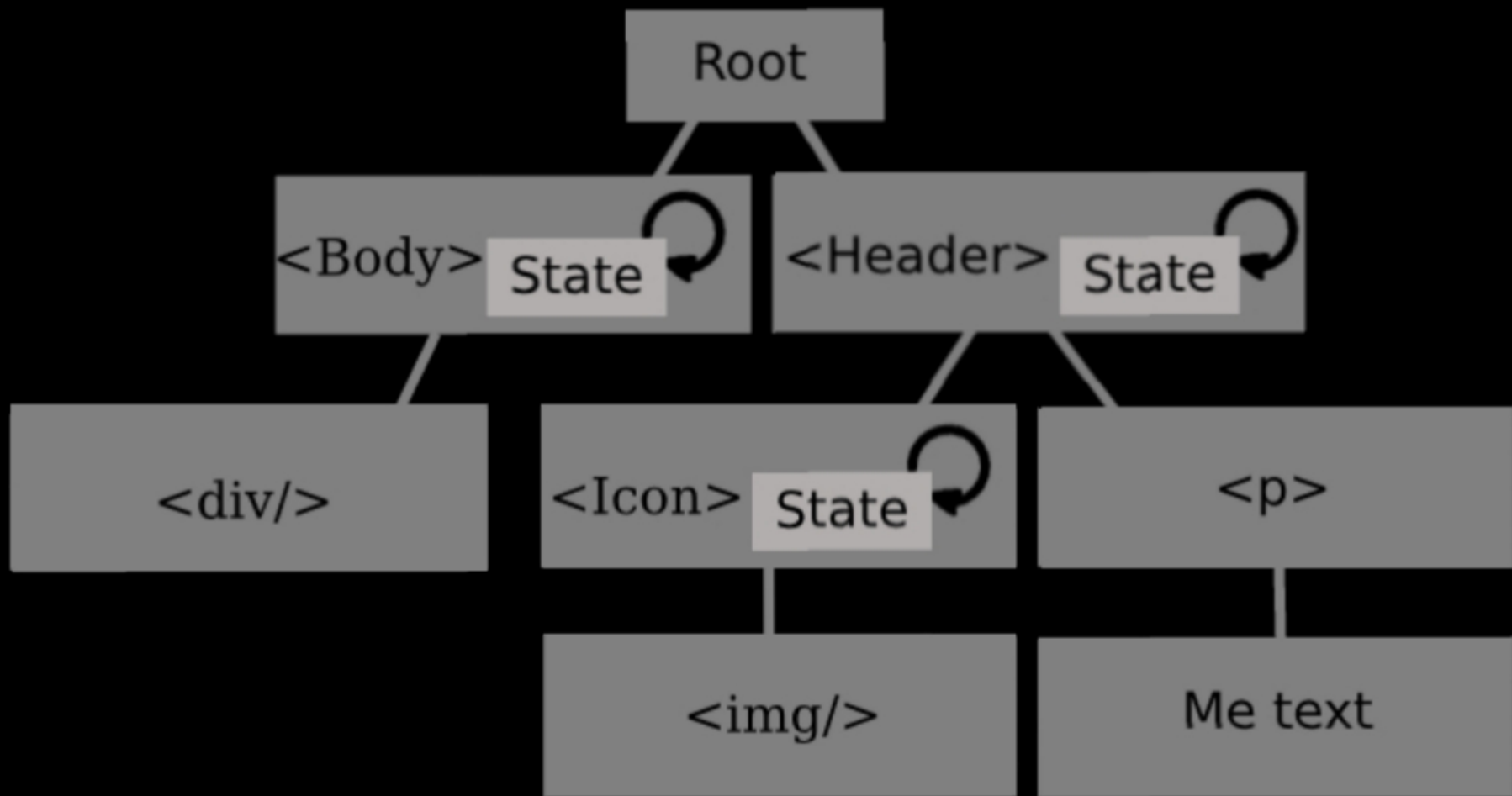


```
const header = document.getElementById('headerText');  
if (header != null) {  
  header.innerHTML = 'This is not a text';  
}
```

Think about how the UI should look at any given moment rather than how to change it

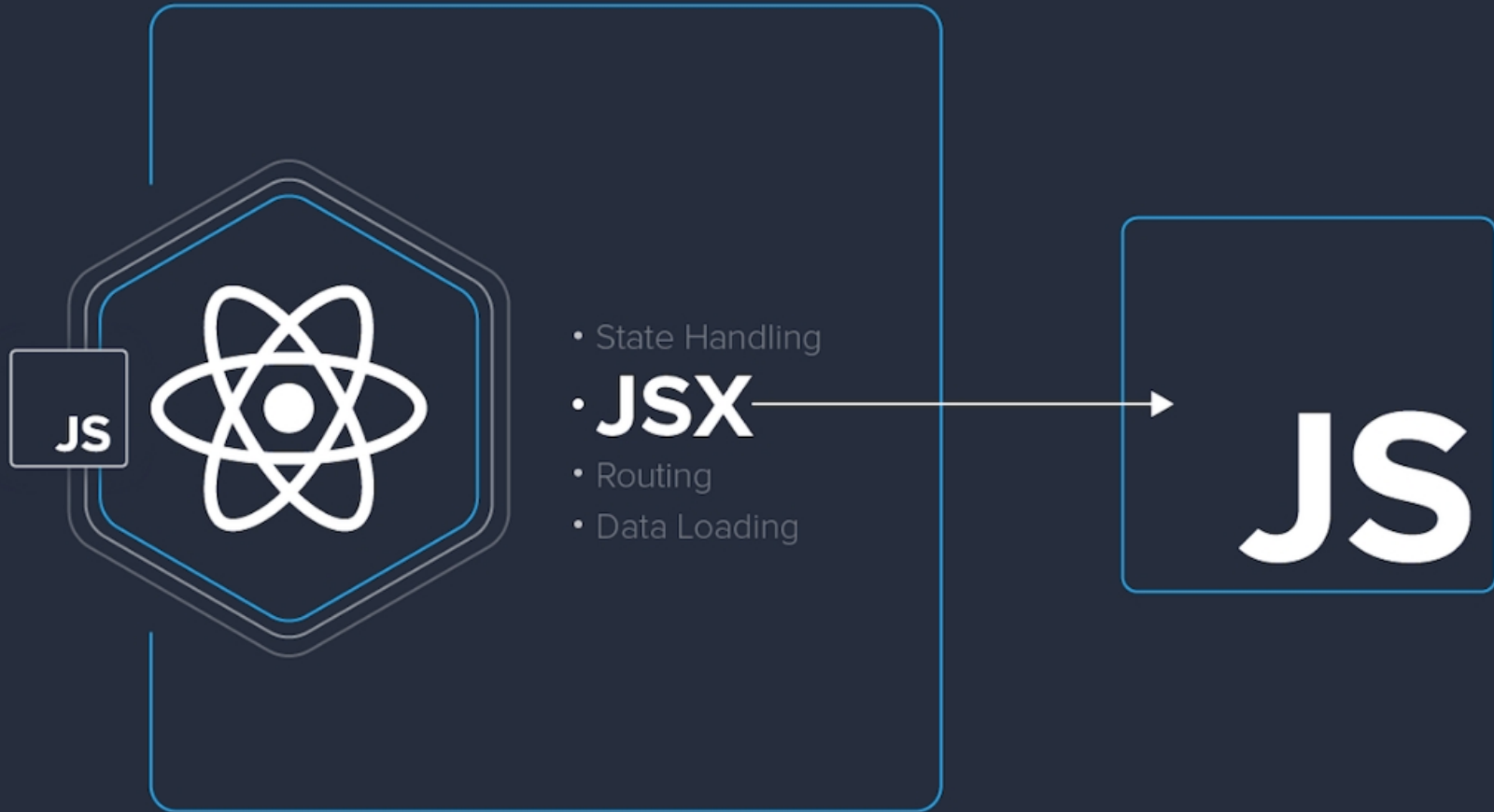


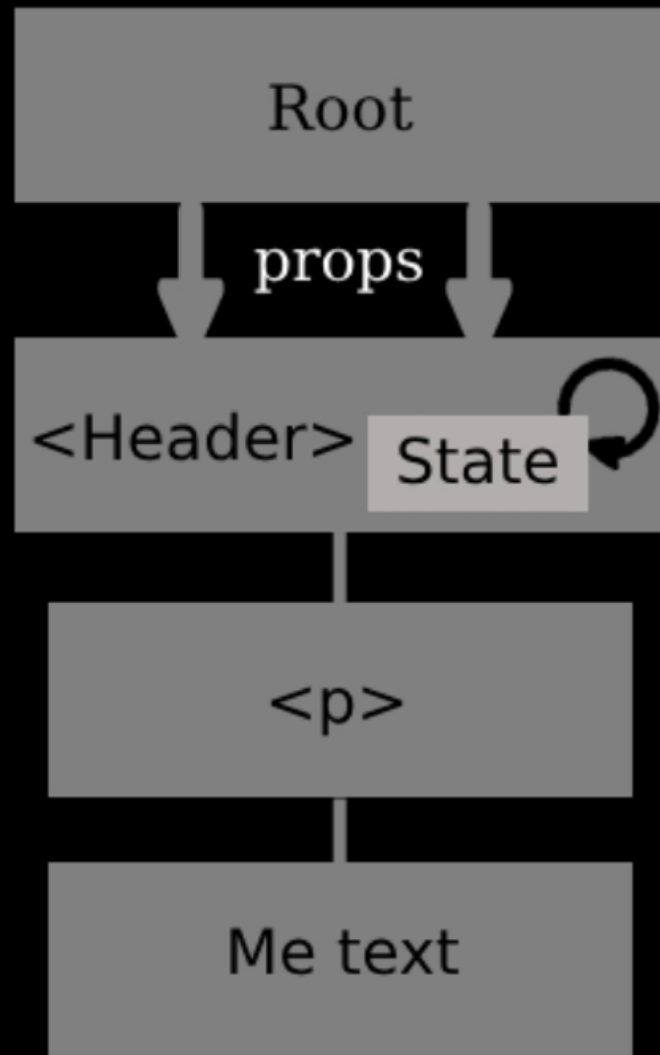







React embraces the fact that rendering logic is inherently coupled with other UI logic







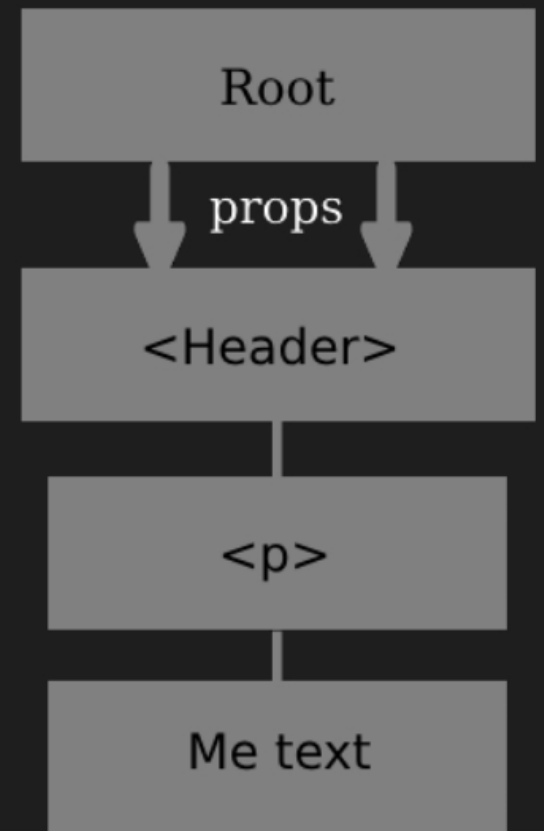
```
{  
    headerText: "Me text"  
}
```



```
<Header headerText='Me text' />
```

```
function Root() {  
  return <Header headerText='Me text' />;  
}
```

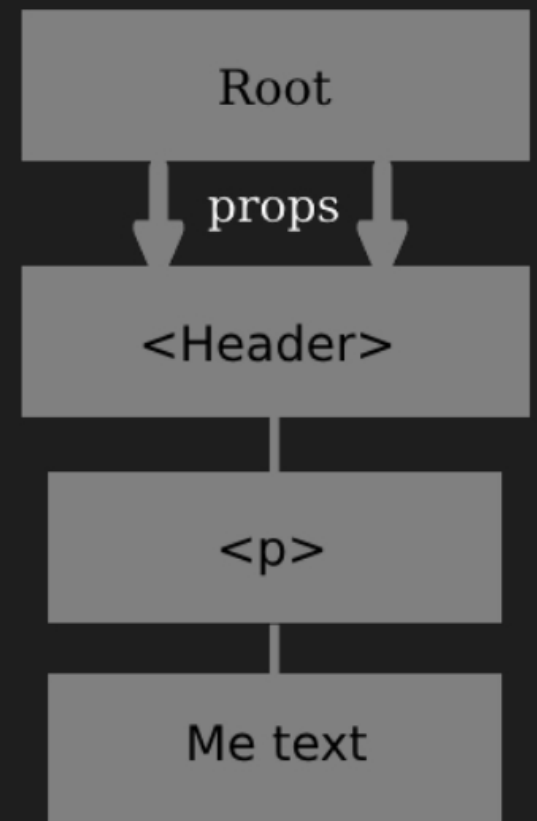
```
function Header(props) {  
  return <p>{props.headerText}</p>;  
}
```




```
const rootElement = document.getElementById( "root" );  
ReactDOM.render( <Root />, rootElement );
```

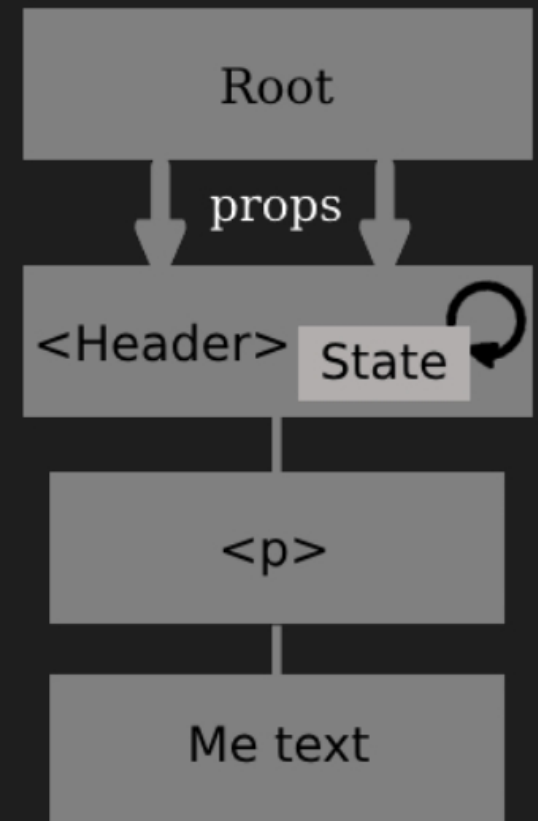
```
class Root extends React.Component {  
  render() {  
    return <Header headerText="Me text" />;  
  }  
}
```

```
class Header extends React.Component {  
  render() {  
    return <p>{this.props.headerText}</p>;  
  }  
}
```



```
class Root extends React.Component {  
  render() {  
    return <Header headerText="Me text" />;  
  }  
}
```

```
class Header extends React.Component {  
  
  constructor(props){  
    super(props);  
    this.state = {  
      headerText = props.headerText;  
    }  
  }  
  
  render() {  
    return <p>{this.state.headerText}</p>;  
  }  
}
```



```
class Header extends React.Component {
  constructor(props) {
    super(props);
    this.state = {
      headerText: props.headerText
    };
  }

  componentDidMount() {
    if (this.props.userId == null) {
      this.setState({ headerText: 'Whaddup, Anonymous?' });
    }
  }

  render() {
    return <p>{this.state.headerText}</p>;
  }
}
```

```
componentDidMount() {  
  // handle mounting logic here  
  if (this.props.userId == null) {  
    this.setState({ headerText: "Whaddup, Anonymous?" });  
  }  
}
```


```
componentWillUnmount() {  
  // clean up after yourself  
  clearTimeout(this.timeout);  
}
```

```
shouldComponentUpdate(nextProps, nextState) {  
  // tell component to maybe skip an unnecessary update  
  return !equals(nextProps, this.props) || !equals(nextState, this.state);  
}  
  
componentDidUpdate(prevProps, prevState) {  
  // handle data change or component transition  
  // DO NOT set state here  
  if (this.props.fetchSuccess && !prevProps.fetchSuccess) {  
    this.closeSpinner();  
  }  
}
```

Build encapsulated components that
manage their own state, then
compose them to make complex UIs

reactjs.org

Think about how the UI should look at any given moment rather than how to change it



**Life is 10% what happens to
you and 90% how you react
to it.**

Charles R. Swindoll