REACT JS

CHEATSHEET

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COMPONENTS

```
import React from 'react';
import ReactDOM from 'react-dom'
```

```
class Hello extends React.component {
  render() {
    return <div className="message-box">Hello {this.props.name}</div>
  }
}
```

```
const el = document.body;
ReactDOM.render(<Hello name="John" />,el);
```

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Import Multiple Exports

```
import React, {Component} from 'react';
import ReactDOM from 'react-dom';
```

```
class Hello extends Component{
  ...
}
```

Properties

```
<Video fullscreen={true} autoplay={false} />
```

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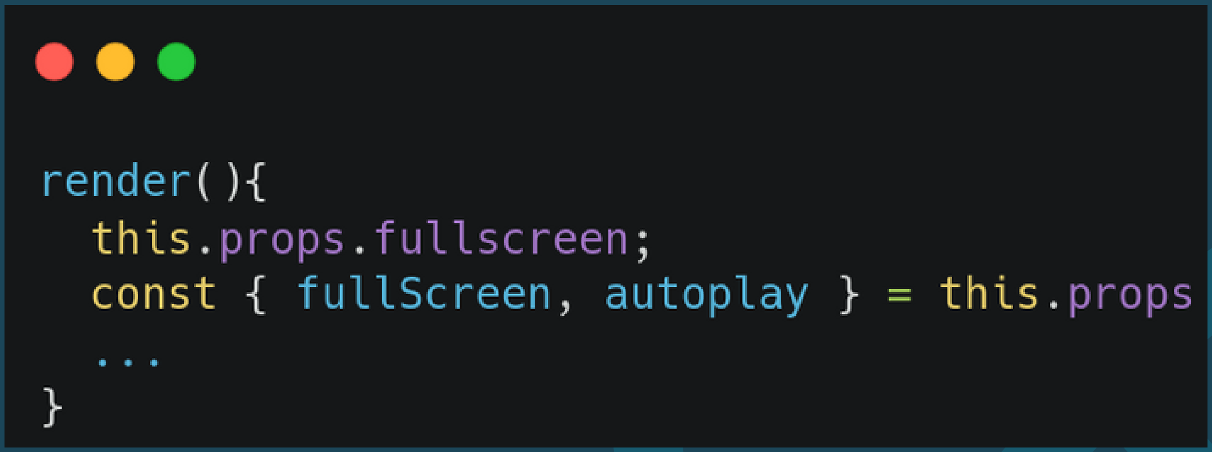
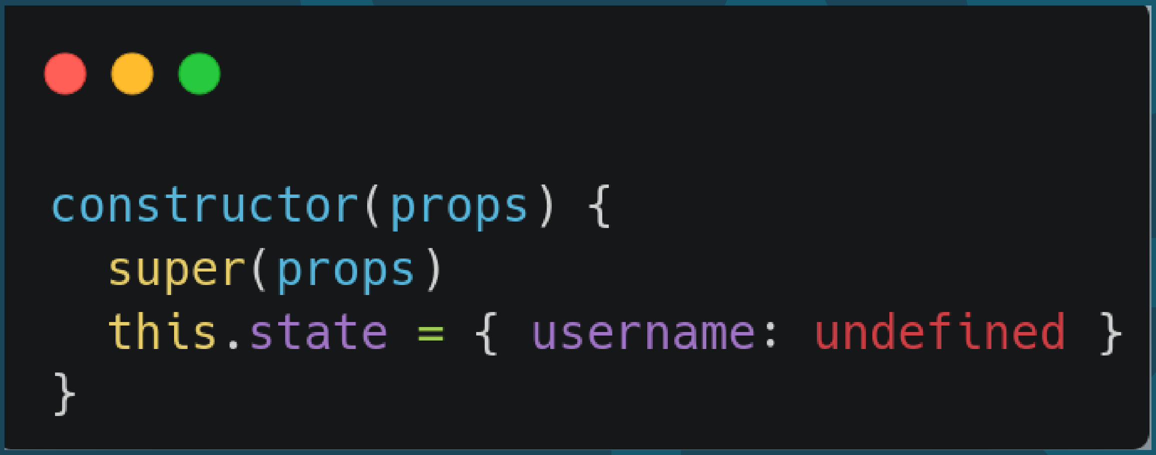


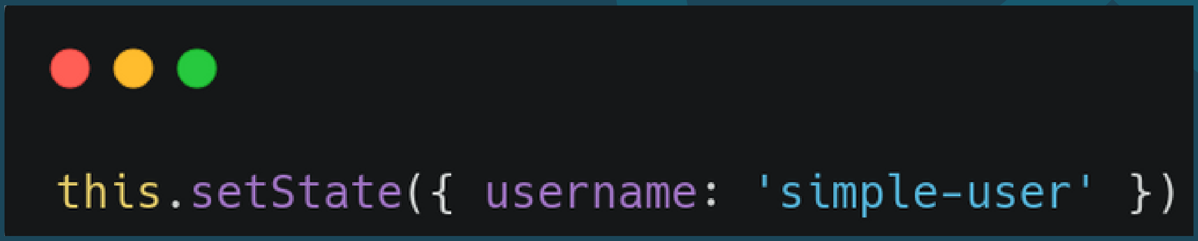
```
render(){
  this.props.fullscreen;
  const { fullScreen, autoplay } = this.props
  ...
}
```

Use this.props to access properties passed to the component.

States



```
constructor(props) {
  super(props)
  this.state = { username: undefined }
}
```



```
this.setState({ username: 'simple-user' })
```

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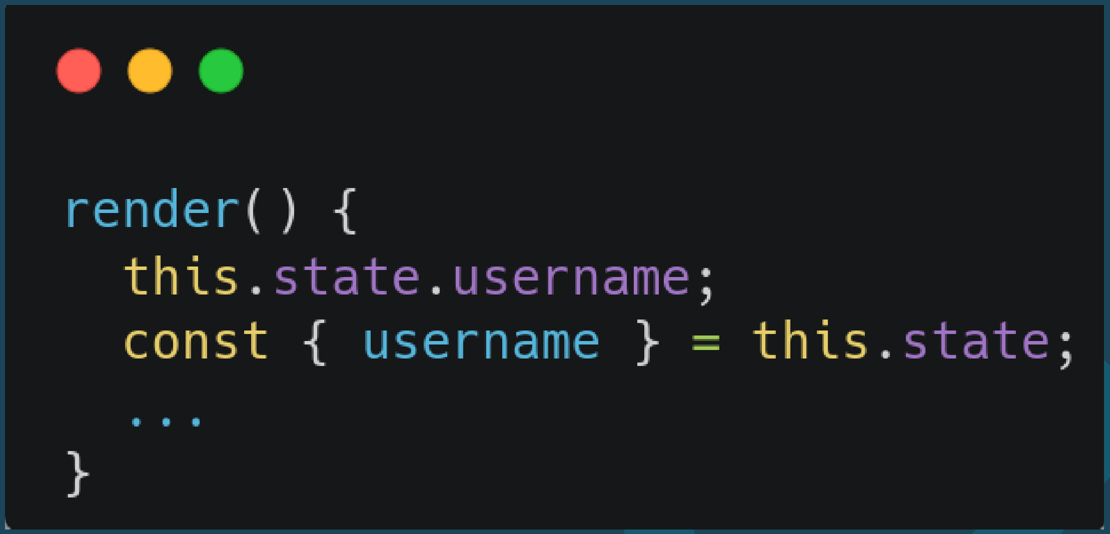
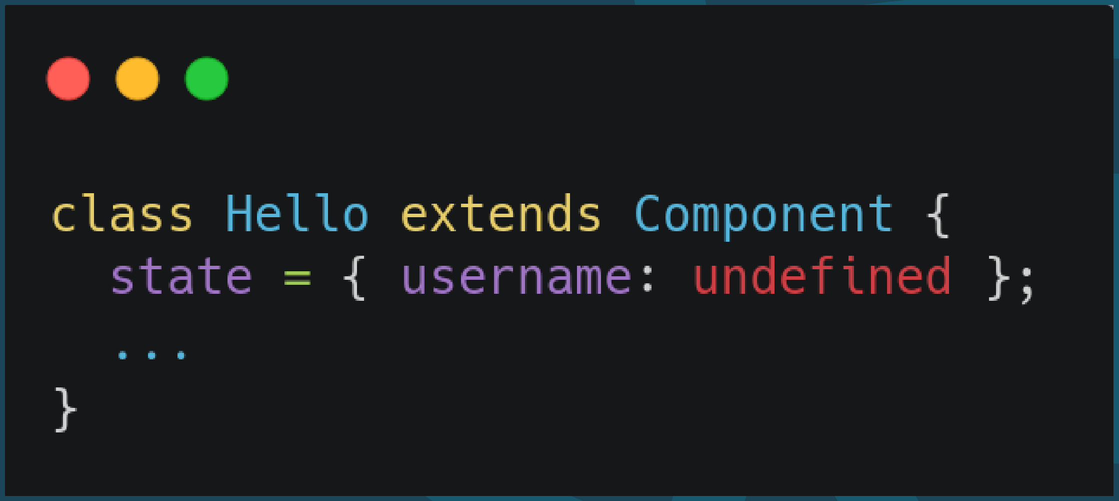


```
render() {
  this.state.username;
  const { username } = this.state;
  ...
}
```



```
class Hello extends Component {
  state = { username: undefined };
  ...
}
```

Use states {this.state} to manage dynamic data.

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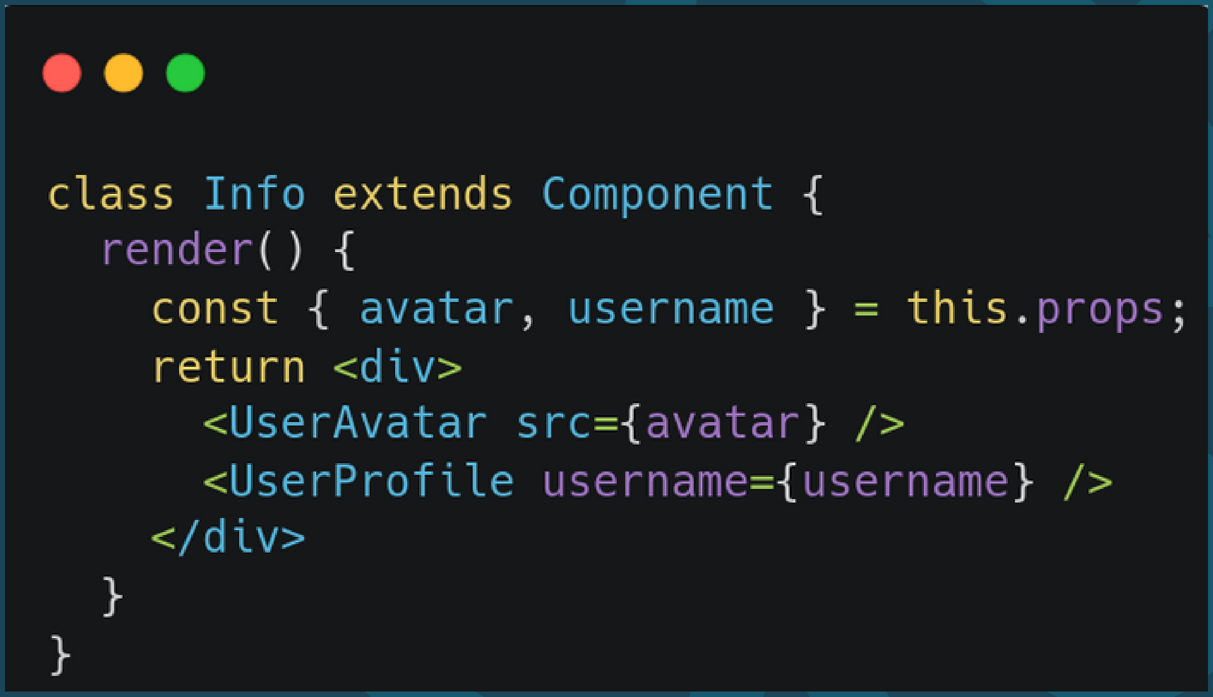
Nesting



```
class Info extends Component {
  render() {
    const { avatar, username } = this.props;
    return <div>
      <UserAvatar src={avatar} />
      <UserProfile username={username} />
    </div>
  }
}
```

As of React v 16.2.0, fragments can be used to return multiple children without adding extra wrapping nodes to the DOM.

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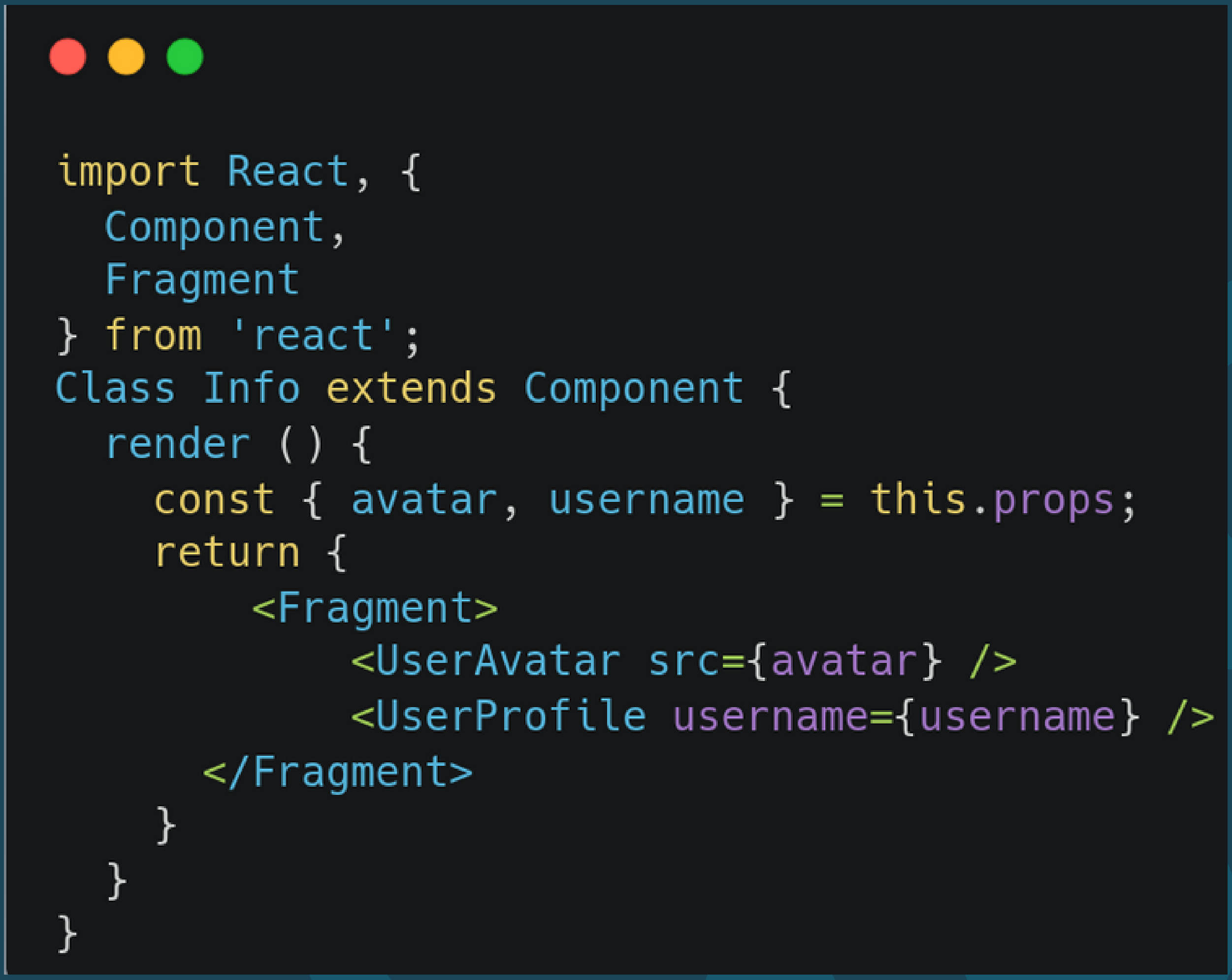
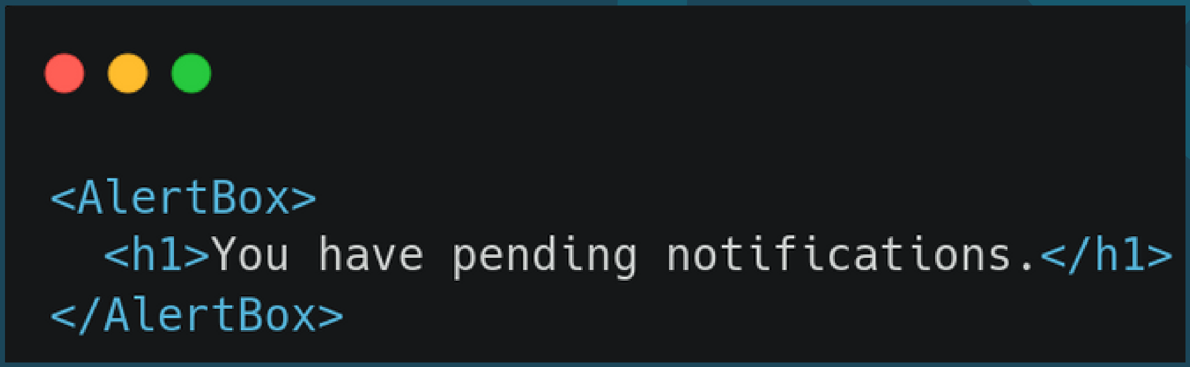


```
import React, {
  Component,
  Fragment
} from 'react';
Class Info extends Component {
  render () {
    const { avatar, username } = this.props;
    return {
        <Fragment>
            <UserAvatar src={avatar} />
            <UserProfile username={username} />
      </Fragment>
    }
  }
}
```

Nest components to separate concerns

Children



```
<AlertBox>
  <h1>You have pending notifications.</h1>
</AlertBox>
```

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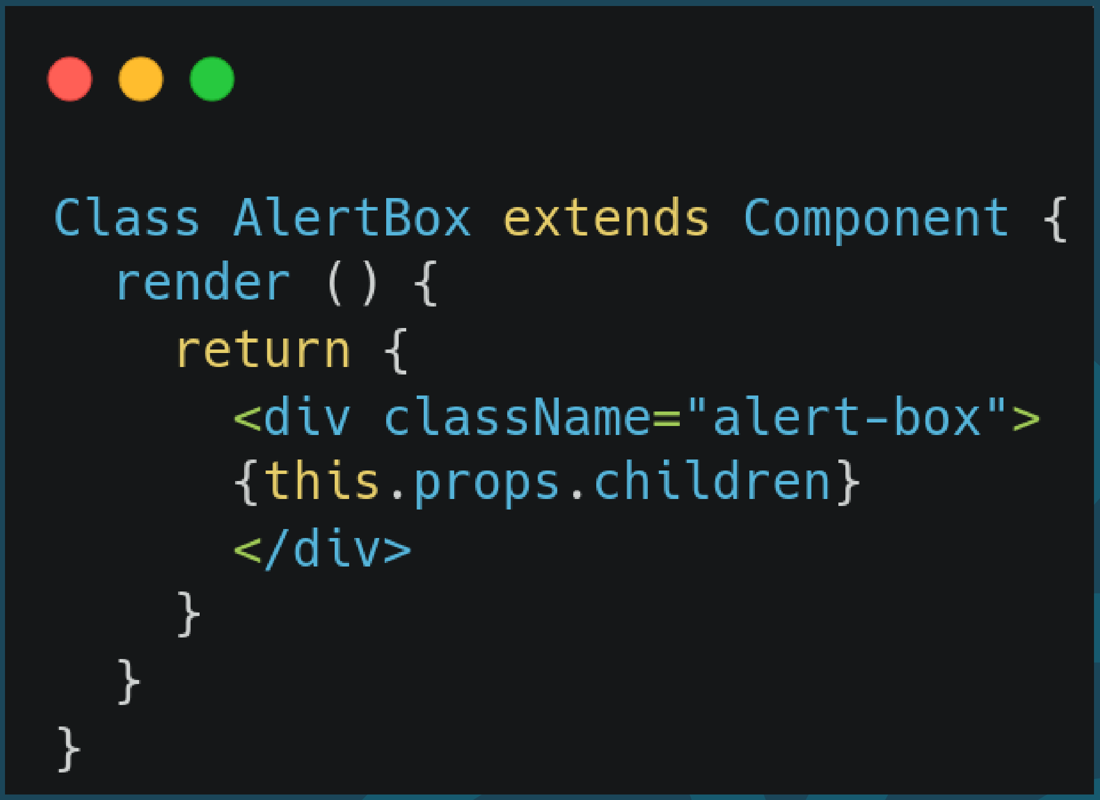
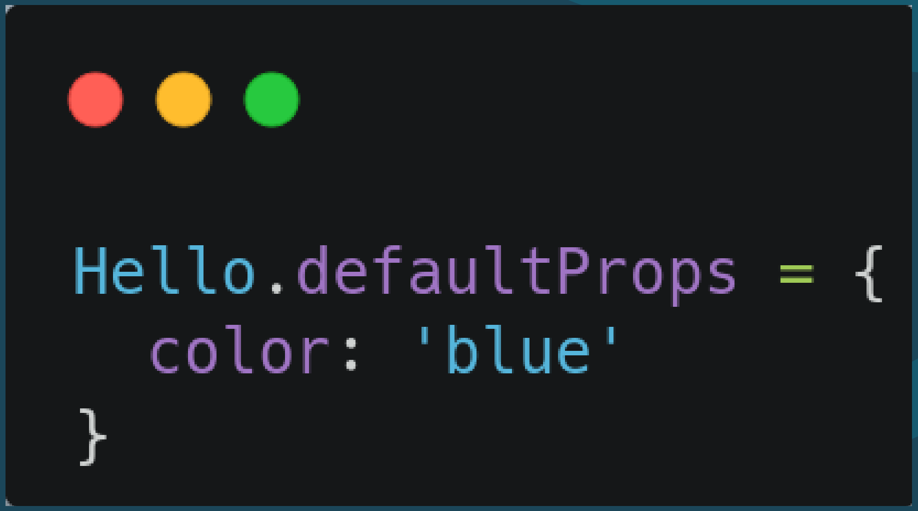


```
Class AlertBox extends Component {
  render () {
    return {
      <div className="alert-box">
      {this.props.children}
      </div>
    }
  }
}
```

Setting Default Props



```
Hello.defaultProps = {
  color: 'blue'
}
```

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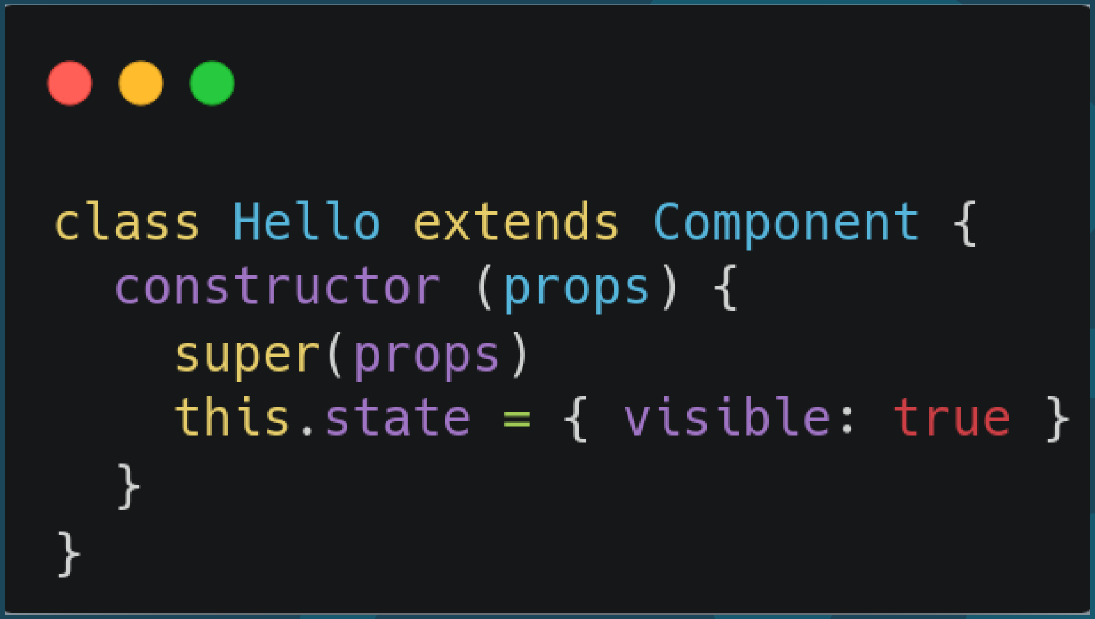
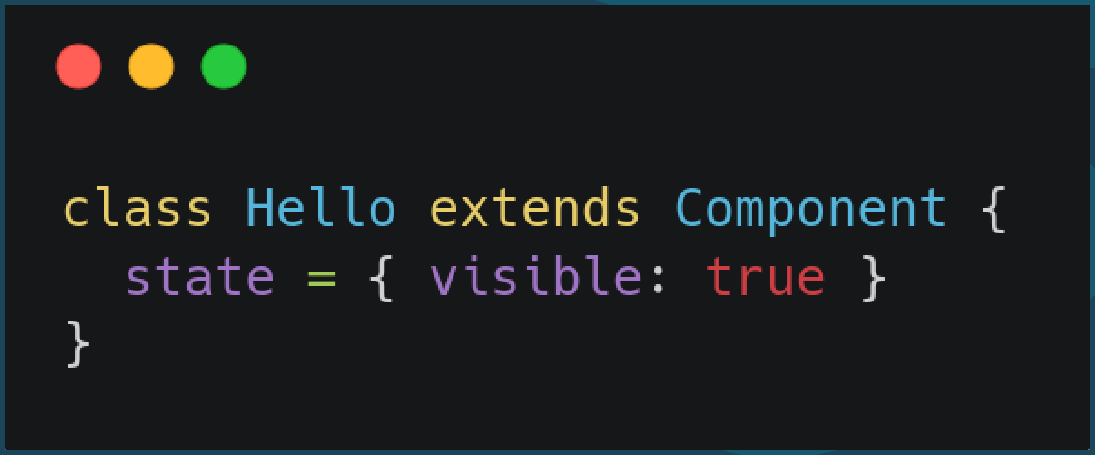
Setting Default State



```
class Hello extends Component {
  constructor (props) {
    super(props)
    this.state = { visible: true }
  }
}
```

Children are passed as the children property



```
class Hello extends Component {
  state = { visible: true }
}
```

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Functional Components

```
function MyComponent ({ name }) {
  return <div className="message-box">
        Hello {name}
    </div>
}
```

Functional component have no state. Also, their props are passed as the first parameter to a function.

Pure Components

```
import React, { PureComponent } from 'react';
class MessageBox extends PureComponent {
  ...
}
```

Performance-optimized version of React Component
Doesn't re-render if props/state hasn't changed.

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Component API

```
this.forceUpdate()
```

```
this.setState({ ... })
this.setState(state => { ... })
```

```
this.state
this.props
```

These methods and properties are available for Component instances.

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LifeCycle

Mounting

constructor (props)	Before rendering
componentWillMount()	Don't use this
render()	Render
componetDidMount()	After rendering (DOM available)
...	...
componentWillUnmount()	Before DOM removal
...	...
componentDidCatch()	Cattch errors (16+)

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Set initial the state on constructor(), Add DOM event handlers, timers, (etc) in componentDidMount(), then remove them on componentWillUnmount().

Updatin

componentDidUpdate (prevProps, prevState, snapshot)	Use setState() here, but remember to compare props
shouldComponentUpdate (newProps, newState)	Skips render() if returns false
render()	Render
componentDidUpdate (prevProps, preState)	Operate on the DOM here

Called when parents change properties and setState(). These are not called for initial renders.

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