Understanding Components



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Module Overview



Component basics

Kinds of components

Props

State

Lifecycle methods

Building components

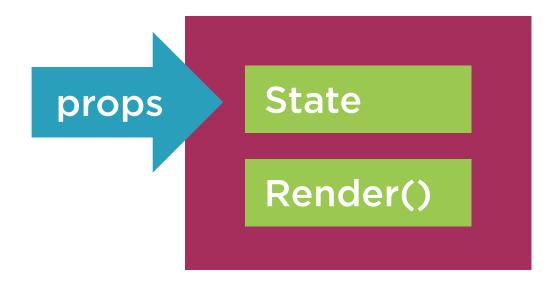


Components

Function Class



Component

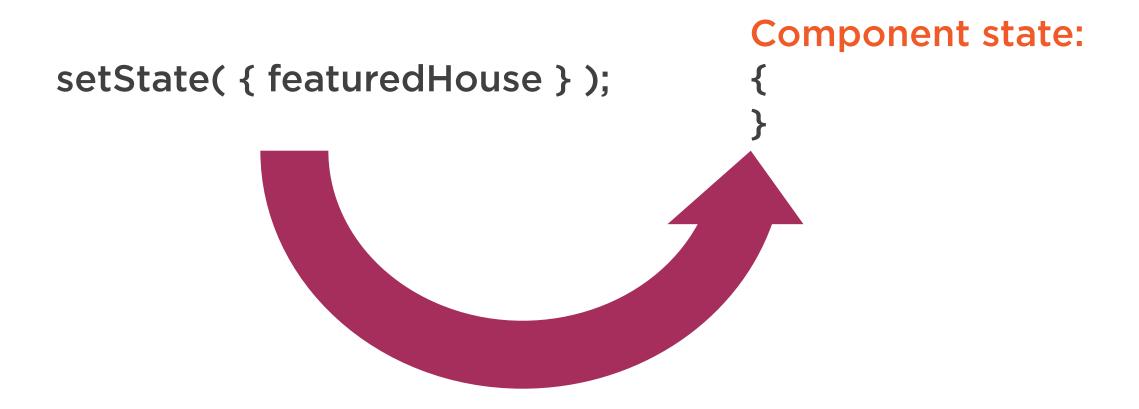


<Component prop="value"/>



State

Private data for the component setState triggers re-render Smart, async, optimized State is used in render() Read by accessing state property Written to by using setState State updates are merged





```
Component state:
{
    featuredHouse
}
```



```
Component state:
                                       featuredHouse
setState( { countries } );
```

```
Component state:
{
    featuredHouse,
    countries
}
```



Lifecycle Methods: Mounting

constructor()

render()

componentDidMount()



Lifecycle Methods: Updating

getDerivedStateFromProps()

shouldComponentUpdate()

render()

componentDidUpdate()



Lifecycle Methods: Unmounting

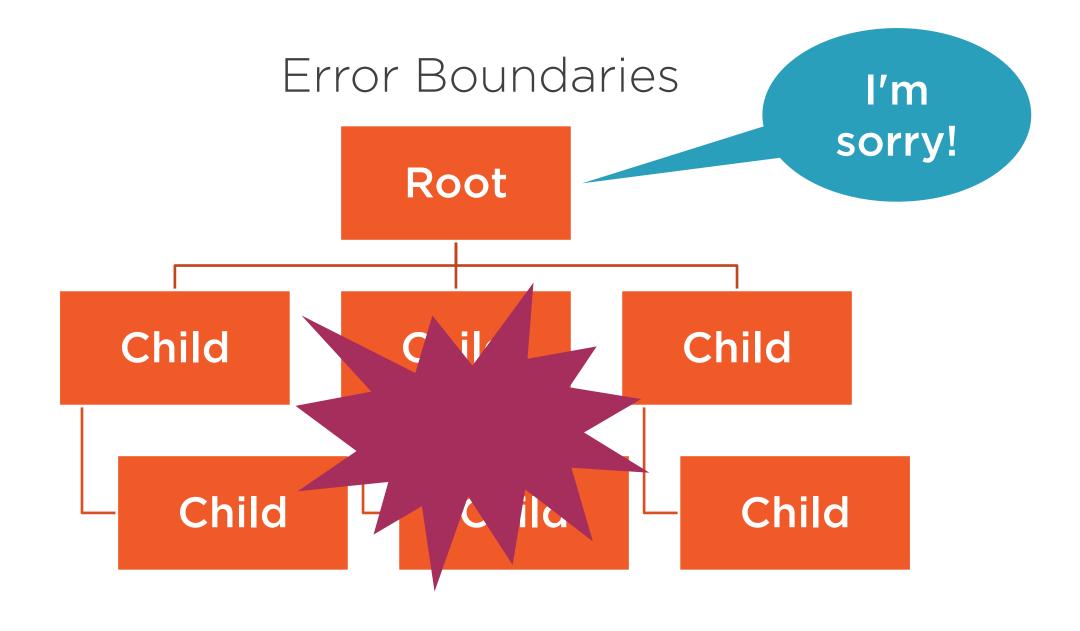
componentWillUnmount()



Lifecycle Methods: Error Boundary

componentDidCatch()





ComponentDidCatch

```
componentDidCatch(error, info) {
  this.setState({ hasError: true });
  log(error, info);
render() {
 if (this.state.hasError) {
     return <h1>Whoops! Sorry!</h1>;
  return <div></div>; //normal UI
```

Functions as Props

```
filter = (country) => {
    //
    //
}
render() {
    <HouseFilter filterHouses = {this.filter}/
}</pre>

Child
onSearchChange = (arg) => {
    this.props.filterHouses(country);
}
```



Component Hierarchy

setActiveHouse = (house)
{}

App

SearchResults

SearchResultsRow



Summary



Component 101

Building components

Placing components

