React Lifecycle

Cory House

@housecor | www.bitnative.com

Here’s the Plan

- Props
- State
- Dynamic child components
- Lifecycle functions
- Demo time!
  - Mock API
  - Dynamic components

Props and State

Props – Look like HTML attributes, but immutable

this.props.username

State – Holds mutable state

this.state.username

Initial State

- getInitialState

Default Prop Values

- getDefaultProps

Lifecycle Methods

componentWillMount

componentDidMount

componentWillReceiveProps

shouldComponentUpdate

componentWillUpdate

componentDidUpdate

componentWillUnmount

componentWillMount

When

Before initial render, both client and server

Why

Good spot to set initial state

componentDidMount

When

After render

Why

Access DOM, integrate with frameworks, set timers, AJAX requests

componentWillReceiveProps

When

When receiving new props. Not called on initial render.

Why

Set state before a render.

shouldComponentUpdate

When

Before render when new props or state are being received.
Not called on initial render.

Why

Performance. Return false to void unnecessary re-renders.

componentWillUpdate

When

Immediately before rendering when new props or state are being received.
Not called on initial render.

Why

Prepare for an update

componentDidUpdate

When

After component's updates are flushed to the DOM.
Not called for the initial render.

Why

Work with the DOM after an update

componentWillUnmount

When

Immediately before component is removed from the DOM

Why

Cleanup

Keys for Dynamic Children

Add a key to dynamic child elements

```
<tr key={author.id}>
```

Summary

Props	Pass data to child components
State	Data in controller view
Lifecycle	Handle bootstrapping and third party integrations