Virtual DOM Uncovered

JSX File → **JSX Compilation**
- Parsing
- Transformation
- Minification

→ **Create Virtual DOM Tree Representation**

→ **Diffing Phase**
- Create a snapshot of the previous Virtual DOM tree
- Create a new Virtual DOM tree
- Compare the two Virtual DOM trees
- Identify the nodes that have changed

Update State
- Trigger State Update
- Call shouldComponentUpdate
- Re-render Component
- Call componentDidUpdate

Update Props
- Get the new props
- Call componentWillReceiveProps
- Compare the new props to the old props
- Call shouldComponentUpdate
- Re-render Component
- Call componentDidUpdate

Component Mount
- Create Component Instance
- Execute Constructor
- Call componentWillMount
- Execute Render Method
- Call componentDidMount
- Attach Event Listeners

Element Creation
- Create a React Element
- Add props/attributes to the React Element
- Add children to the React Element
- Return the React Element

Reconciliation → **Element Removal**
- Find the element to remove
- Remove the element from the state
- Update the UI

→ **Component Unmount**
- Identify Component to Unmount
- Call componentWillUnmount

→ **Render to DOM**