



# RECONCILIATION

🤔 Why not update the entire DOM whenever state changes somewhere in the app?

↓ BECAUSE

👉 That would be inefficient and wasteful:

- 1 Writing to the DOM is (relatively) **slow**
- 2 Usually only a **small part of the DOM** needs to be updated

👉 React **reuses** as much of the existing DOM as possible

↓ HOW?

❤️ **Reconciliation:** Deciding which DOM elements actually need to be inserted, deleted, or updated, in order to reflect the latest state changes

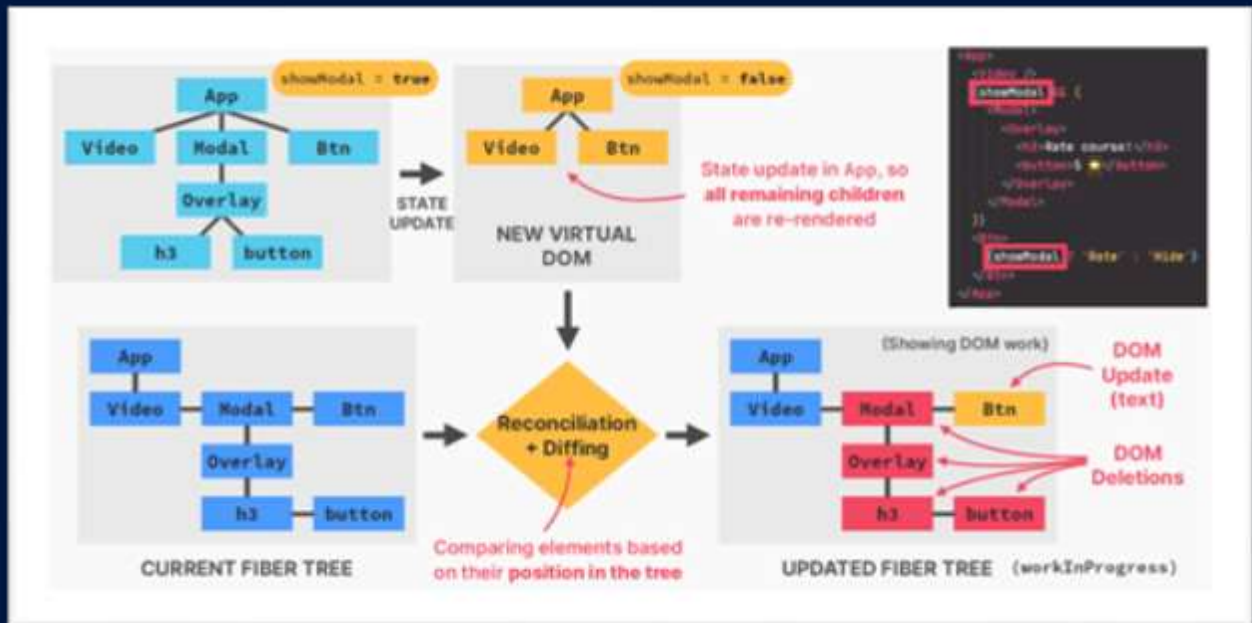


↓ showModal = true



Only these new DOM elements are created





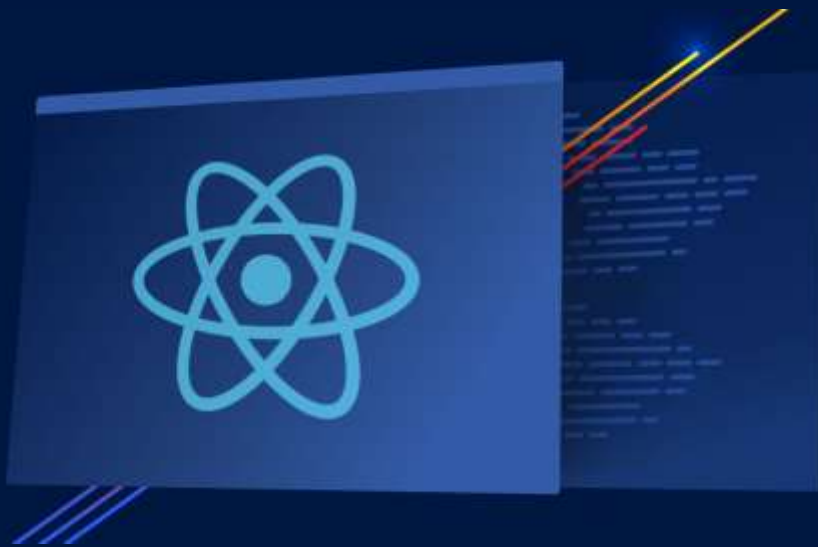
Reconciliation in React refers to the process of updating the user interface to reflect changes in the underlying data, such as changes in component state or props. React uses a diffing algorithm during the reconciliation process to efficiently determine the minimal set of updates needed to transition from the current state of the UI to the desired state.





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