



REACT JS DATA FLOW

HOW DATA FLOW IN REACTJS



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In React, data flows in **one direction**, typically from a **parent component** to a **childcomponent**. This **unidirectional** data flow is one of the core principles of React, known as "**props drilling**" or "**lifting state up.**"



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PARENT COMPONENT TO CHILD COMPONENT

- Parent components can pass data to child components through **props**. These props are essentially **properties** that are passed down from the parent component to its child component.
- **Child components** receive these **props** and can use the data passed to them by the parent component.



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CHILD COMPONENT TO PARENT COMPONENT

- If a child component needs to **communicate** with its **parent**, it can do so by invoking a function passed down from the **parent as a prop.**
- When the child component **calls this function**, it can pass data **back** to the parent component, effectively allowing data to flow from child to parent.



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STATE MANAGEMENT

- React components can also have their own **internal state** using the **useState** hook or stateful class components (prior to React 16.8).
- State can be updated using `setState` (for class components) or the function returned by `useState` (for functional components with hooks).
- Changes to state trigger a **re-render** of the component, updating the UI to reflect the **new state**.



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CONTEXT API

- React's Context API allows you to share data across the component tree without having to pass props down manually at every level.
- Context provides a way to pass data through the component tree without having to pass props down manually at every level.
- This can be useful for providing global data or theme information to many components in an application.



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REDUX / OTHER STATE MANAGEMENT LIBRARIES

- For **complex applications**, you might use libraries like **Redux** to manage the application state.
- Redux provides a **centralized** store for all the state in your application and allows you to define actions that can be **dispatched** to **update** the state.
- Components can **subscribe** to the **Redux** store to receive updates when the state changes.



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