

Q what is props ?

→ In React "Props" (Short for Properties) are a mechanism for passing data from parent Component to child components. They are a fundamental concept in React's Component-based architecture & enable the creation of reusable & dynamic User interfaces.

Here's a breakdown of the key theoretical aspects of props.

- Data flow !

props facilitate a Unidirectional data flow in react, meaning data is passed down the Component tree from parent to child. This predictability helps in understanding and debugging helps in understanding the Application state.

- Immutability.

props are considered read-only within the child Component that receives them. This means a child Component ~~needs to change~~ cannot directly modify the props it receives from its parent.

- Reusability :

props enable Component reusability. By passing different data through props, the same Component can render varying

Content.

-Syntax 1

Props are defined as attributes in JSX when rendering a Component, similar to HTML attributes.

-Code

// Parent Component.

```
function ParentComponent () {  
  const message = "Hello from parent!";  
  return <childComponent text = {msg}/>;  
}
```

// child Component.

```
function childComponent (props) {  
  return  
    <P> { props.text } </P>  
}
```