Props in React

- **Props in React** are short for **"properties"**. They are used to **pass data from one component to another**, usually from a **parent to a child component**.

Key Points:

- Props are **read-only** (immutable).

- They help make components **reusable and dynamic**.

```
function App() {
 return <Greeting name="Arun" />;
 }


 function Greeting(props) {
 return <h1>Hello, {props.name}</h1>;
 }
```

Advantages of Props in React:

- **Data Passing**: Easily pass data from parent to child components.

- **Reusability**: Make components reusable by changing props.

- **Maintainability**: Helps keep code modular and organized.

- **Stateless Components**: Enable creation of pure functional components.

- **Unidirectional Flow**: Ensures predictable data flow (top-down).

- **Dynamic Rendering**: Components render dynamically based on prop values.

Can props send data from:

- **Parent to child** -- Yes

- **Child to child** -- No (you pass through the parent)

- **Child to parent** -- No (use callback function for this)