



## What is Prop Drilling

- In React, “**prop drilling**” refers to the **process of passing data** from a high-level component down to a **deep-level component** through intermediate components that do not need the data themselves.
- This can happen when components in a component tree **need access to shared data**, but they are not direct descendants of each other.

```
App
  | --ParentComponent
  |   | --ChildComponent
  |     | --GrandchildComponent
```

- **Prop drilling** is when data from the **App component** needs to be accessed by the **GrandchildComponent**, but it has to be passed through the **ParentComponent** and **ChildComponent** without being directly passed as props to them.
- **Prop drilling process look like:**
  - **App component** has the data that **GrandchildComponent** needs.
  - App passes the data as a prop to **ParentComponent**.
  - ParentComponent passes the same data as a prop to **ChildComponent**.
  - ChildComponent finally passes the data as a prop to **GrandchildComponent**.