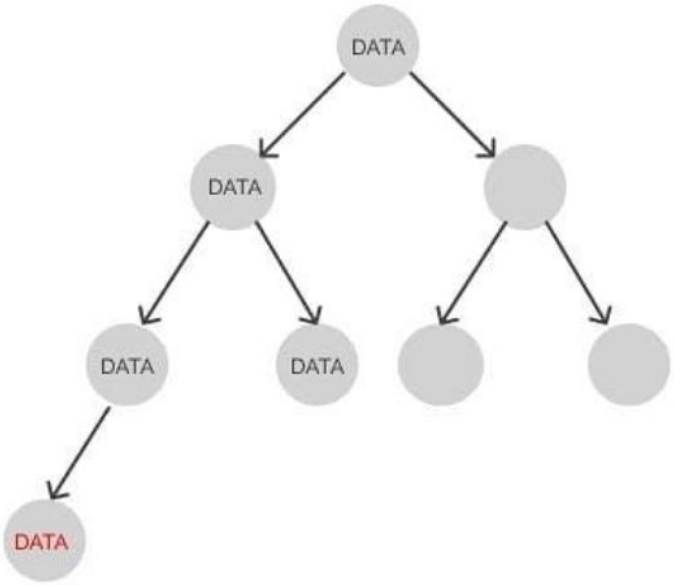
Context API in React

(Part - I)

If we want to pass some kind of data from one component to another or from parent to a child component, the one way is to pass props to other components manually

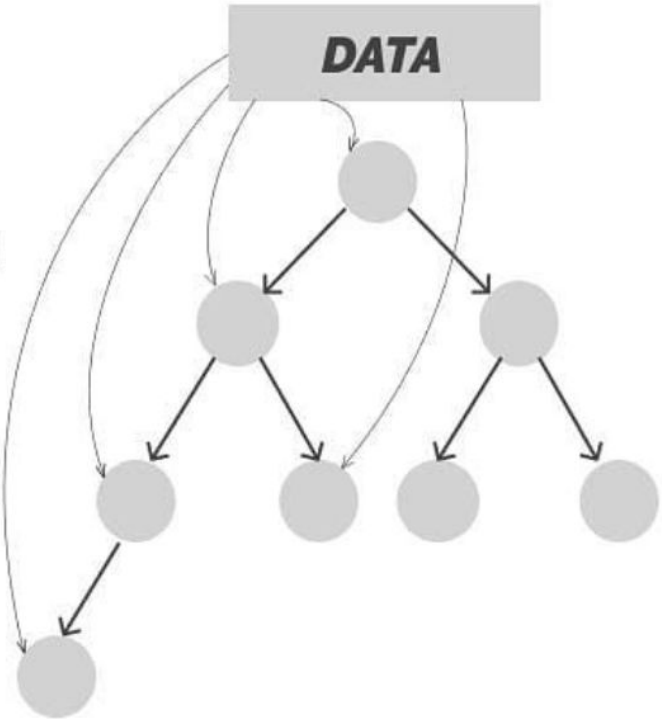
If the structure of the component tree is gigantic then it can be tedious to pass the data to a lower component.



But we have a solution to this problem

CONTEXT API

It helps you to keep your data in a central place, so that you can access the data anywhere in the component tree without passing via props.



Three major terminologies involved here

- Context
- Provider
- Consumer

STEP 01

First we will create the context.

```
1 export const MyContext = createContext("Some default value");
```

STEP 02

Then we will create provider.

```
1 export const MyProvider = () => {
2   const [count, setCount] = useState(0);
3   return (
4     <MyContext.Provider value={[count, setCount]}>
5       <ComponentOne />
6       <ComponentTwo />
7     </MyContext.Provider>
8   );
9 };
```

Here we pass the data which we want to access globally by components

These are the components which can access the value (data).

But how to use that data in ComponentOne and ComponentTwo? 😬

STEP 03

One way to get access to that data is to use **useContext** hook. And destructure the value like below.

```
export const ComponentOne = () => {
  const [count, setCount] = useContext(MyContext);
  const increase = () => {
    setCount((c) => c + 1);
  };
  return (
    <div>
      <div>{count}</div>
      <button onClick={increase}>Increase</button>
    </div>
  );
};
```

STEP 04

Another way to get access to that data is to use **Consumer.** Inside the MyContext.Context you can pass **function as child**. The function receives the current context value and returns a React node like below.

```
export const ComponentTwo = () => {
  return (
    <MyContext.Consumer>
      {([count, setCount]) => (
        <>
          <div>{count}</div>
          <button onClick={() => setCount((c) => c + 1)}>Increase</button>
        </>
      )}
    </MyContext.Consumer>
  );
};
```

Thank You

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