

## **DERIVED STATE**

- Three separate pieces of state, even though numItems and totalPrice depend on cart
- Need to keep them in sync (update together)
- 3 state updates will cause 3 re-renders
- Derived state: state that is computed from an existing piece of state or from props
- Just regular variables, no useState
- cart state is the single source of truth for this related data
- Works because re-rendering component will automatically re-calculate derived state

```
const [cart, setCart] = useState([
    { name: "JavaScript Course", nrice: 15.99 },
    { name: "Node.js Bootcamp", price: 14.99 }
]);
const [numItems, cotNumItems] - useState(2);
const [totalPrice, setTotalPrice] = useState(30.98);
```

## DERIVING STATE

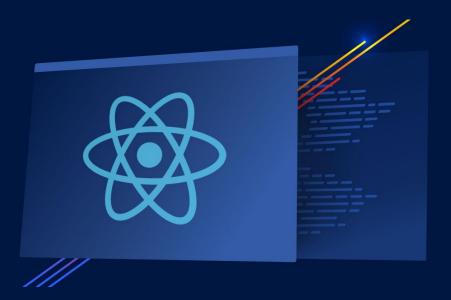
```
const cart setCart] = useState([
    { name: "JavaScript Course", price: 15.99 },
    { name: "Node is Bootcamp", price: 14.99 },
]);
const numItems = cart.length;
const totalPrice =
    cart.reduce((acc, cur) ⇒ acc + cur.price, 0);
```





## Do you find it helpful?

Let me know down in the comments.





**Click To Follow For More On LinkedIN** 

