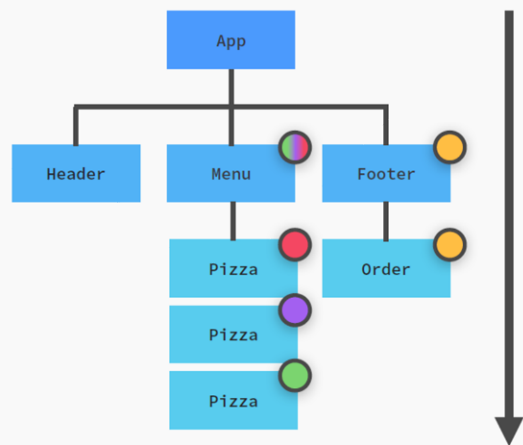




PROPS

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- 👉 Essential tool to **configure** and **customize** components (like function parameters)
- 👉 With props, parent components **control** how child components look and work

```
<Menu>  
  <Button bgColor="blue" text="New" />  
  <Button bgColor="green" text="Edit" />  
  <Button bgColor="red" text="Delete" />  
</Menu>
```





PROPS

- 👉 Props are used to pass data from **parent components** to **child components** (down the component tree)
- 👉 Essential tool to **configure** and **customize** components (like function parameters)
- 👉 With props, parent components **control** how child components look and work
- 👉 **Anything** can be passed as props: single values, arrays, objects, functions, even other components

```
function CourseRating() {  
  const [rating, setRating] = useState(0);  
  
  return (  
    <Rating  
      text="Course rating"  
      currentRating={rating}  
      numOptions={3}  
      options={["Terrible", "Okay", "Amazing"]}   
      allRatings={{ num: 2390, avg: 4.8 }}  
      setRating={setRating}  
      component={Star}  
    />  
  );  
}  
  
function Star() {  
  // To do  
}
```

Props is data coming from the **outside**, and can **only** be updated by the **parent component**

State is internal data that can be updated by the **component's logic**

Parent Component

Component

Data

Props

State

Logic

Appearance

```
let x = 7;  
function Component() {  
  x = 23;  
  return <h1>Number {x}</h1>  
}
```

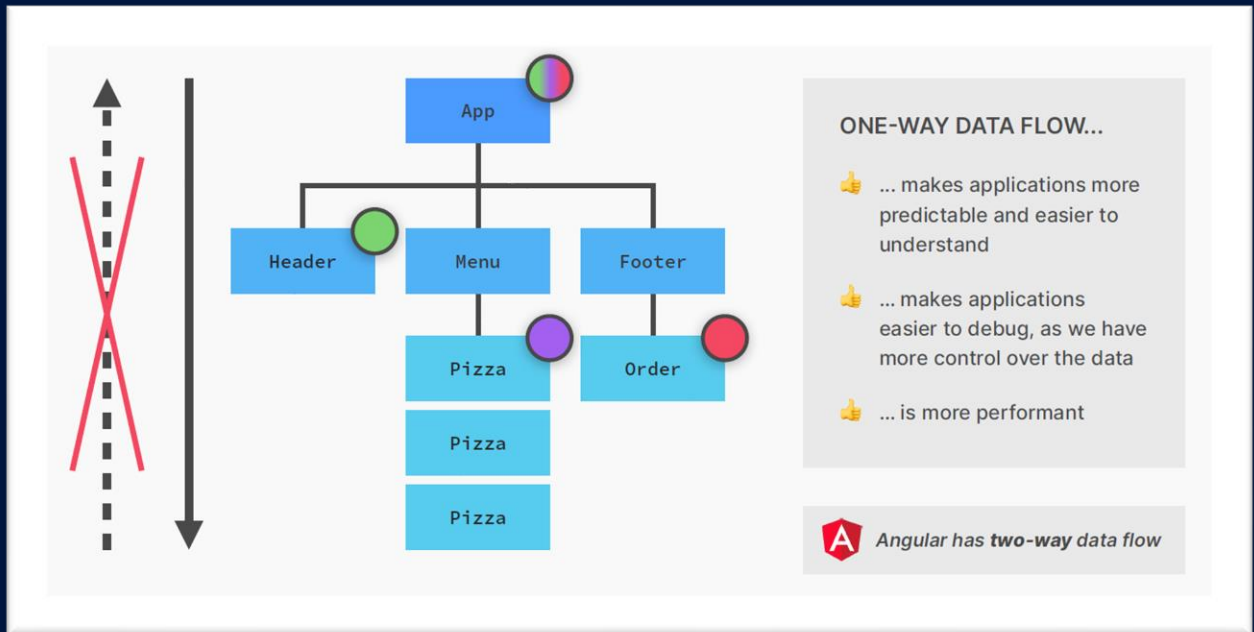
Don't do this!

- 👉 Props are read-only, they are **immutable**! This is one of React's strict rules.
- 👉 If you need to mutate props, you actually **need state**

↓ WHY?

- 👉 Mutating props would affect parent, creating **side effects** (not pure)
- 👉 Components have to be **pure functions** in terms of props and state
- 👉 This allows React to optimize apps, avoid bugs, make apps predictable

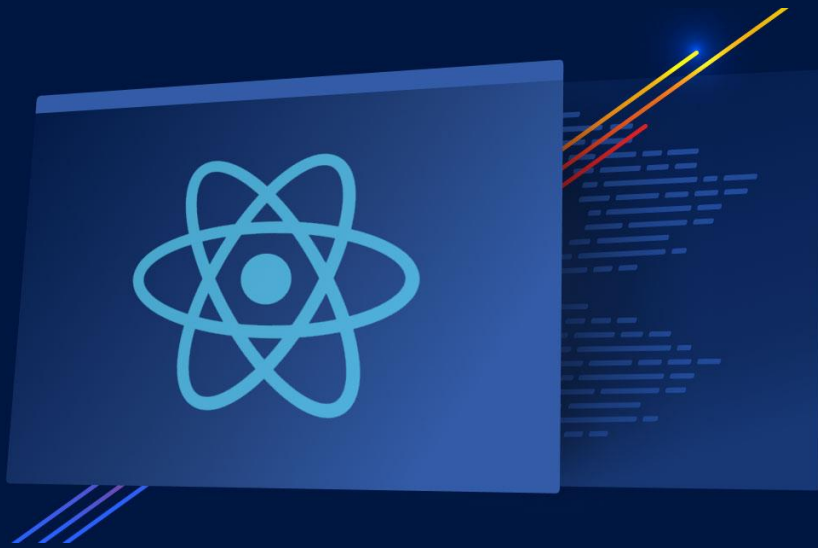






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