#### **COMPONENT CATEGORIES**

Most of your components will naturally fall into one of three categories:

Stateless / presentational components

- No state
- Can receive props and simply present received data or other content
- Usually small and reusable





# Stateful components

- Have state
- Can still be reusable



# Structural components

- "Pages", "layouts", or "screens" of the app
- Result of composition
- Can be huge and nonreusable (but don't have to)



### **"USING" A COMPONENT** Modal Want to reuse function Modal() { return ( <div className="modal"> <Success /> </div> function Success() { Success return Well done!;

### **"USING" A COMPONENT** Modal Success Want to reuse function Modal() { return ( <div className="modal"> <Success /> </div> function Success() { return Well done!;

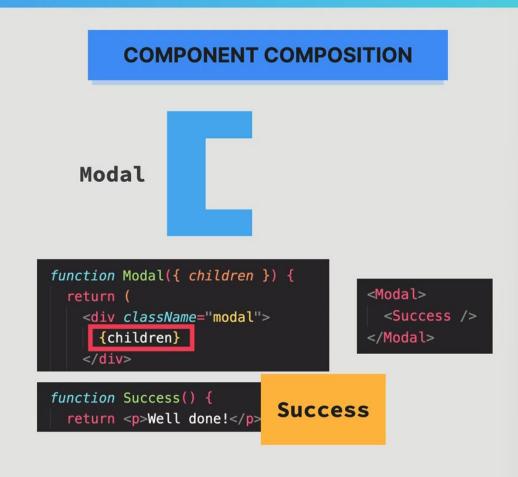
### **"USING" A COMPONENT** Modal Success Want to reuse function Modal() { return ( <div className="modal"> <Success /> </div> function Success() { return Well done!; Success is inside Modal: we can NOT reuse Modal

## **"USING" A COMPONENT** Modal Success function Modal() { return ( <div className="modal"> <Success /> </div> function Success() { return Well done!; Success is inside Modal: we can NOT reuse Modal

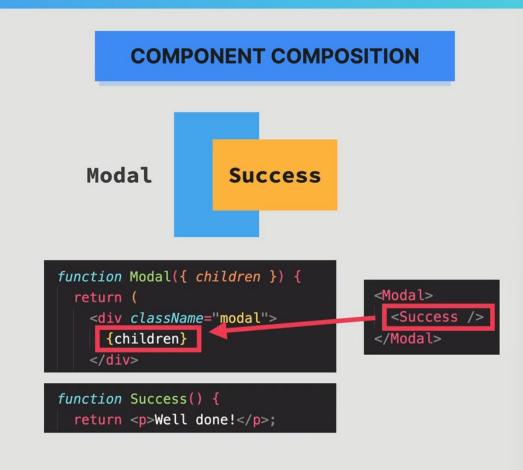
## **"USING" A COMPONENT** Modal Success function Modal() { return ( <div className="modal"> <Success /> </div> function Success() { return Well done!; Success is inside Modal: we can NOT reuse Modal



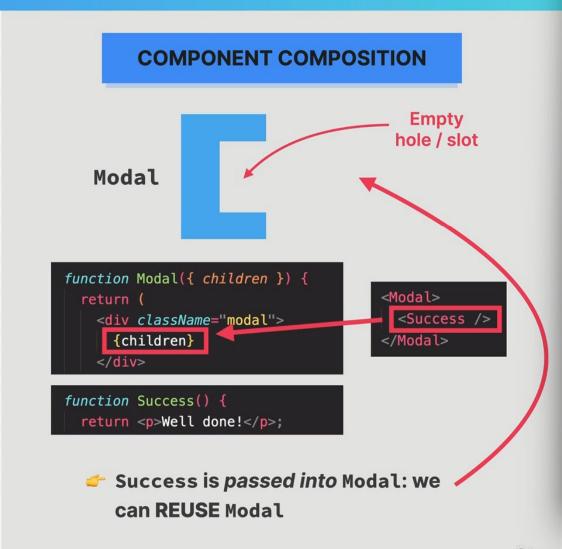
## **"USING" A COMPONENT** Modal Success function Modal() { return ( <div className="modal"> <Success /> </div> function Success() { return Well done!; Success is inside Modal: we can NOT reuse Modal



## **"USING" A COMPONENT** Modal Success function Modal() { return ( <div className="modal"> <Success /> </div> function Success() { return Well done!; Success is inside Modal: we can NOT reuse Modal



## **"USING" A COMPONENT** Modal Success function Modal() { return ( <div className="modal"> <Success /> </div> function Success() { return Well done!; Success is inside Modal: we can NOT reuse Modal



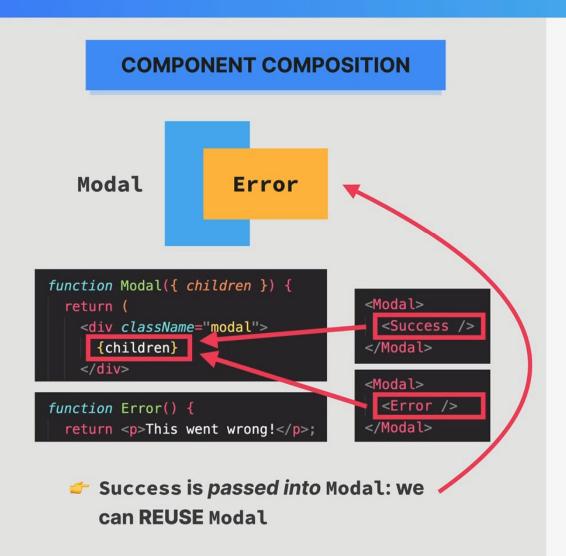
## **"USING" A COMPONENT** Modal Success function Modal() { return ( <div className="modal"> <Success /> </div> function Success() { return Well done!; Success is inside Modal: we can NOT reuse Modal

can REUSE Modal

**COMPONENT COMPOSITION** 

Error

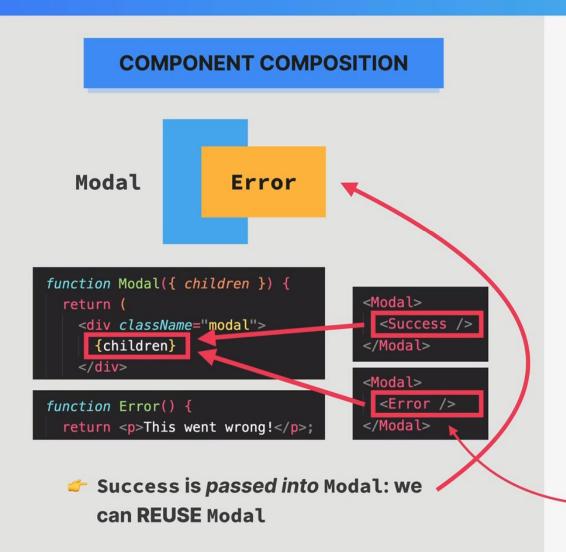
Modal



Component composition: combining different components using the children prop (or explicitly defined props)

#### WE COMPONENT COMPOSITION, WE CAN:

- Create highly reusable and flexible components
- 2 Fix prop drilling (great for layouts)



Component composition: combining different components using the children prop (or explicitly defined props)

#### WE COMPONENT COMPOSITION, WE CAN:

- Create highly reusable and flexible components
- 2 Fix prop drilling (great for layouts)

Possible because components don't need to know their children in advance