### React: Controlled Components

Phase 2 | Week 1, Lesson 3

## First, a question!

#### Today's Objectives

Today, we'll answer the following questions:

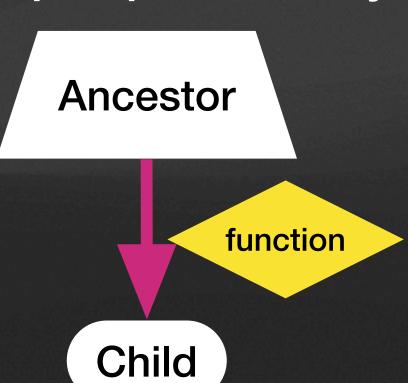
- 1. How can a child component ask its parent to execute some code?
  - A. When should we grant that kind of control to parents?

```
function Child ({ function }) { function(input) }
```

#### Passing Functions as Props

function Child ({ function }) { function(input) }

- We can pass any values as props, including objects, arrays, and functions.
- If a parent defines a function and passes it to its child as a prop, we say that:
  - The parent controls its child.
  - The child is a controlled component.
  - Some of the child's behavior is dictated by an ancestor.
  - The child is <u>driven by props</u>, as opposed to being <u>driven by state</u>\*.
- In practice, no component is completely controlled but it's a useful term!



#### Example: A Controlled Book

```
App
function App() {
 const [page, setPage] = useState(1);
                                                                    the page state
 function turnThePage() { setPage(page + 2) };
 return
  <Book page={page} turnThePage={turnThePage} />
                                                      a function that
                                                     updates the page
                                                        state
                                                                Book
```

## Let's try it

# Thanks!

Let me know if you have any questions.