



## What is state within the context of a React application?



State is a set a <u>values</u>

<u>belonging</u> to a component
which <u>change</u> over time.



State may be represented by a primitive or other data structure. (often an object)

### **Initial App**

## **Click Counter!**

Click Count: 0

Increment

#### **Increment Clicked**

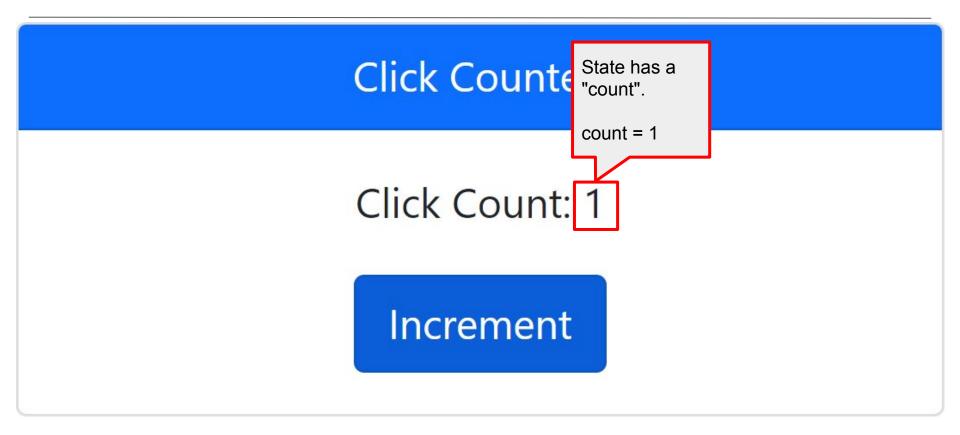
## Click Counter!

Click Count: 1

Increment

## What values should belong to state?

#### **Increment Clicked**



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What is a React Hook?



# Hooks are a recent addition to React



Hooks make it possible to use state and other features without implementing an ES6 class.

#### State with ES6 Class

```
export default class Counter extends React.Component {
state = {
   count: 0.
 handleClick = () => {
   this.setState(
     (state) => ({ count: state.count + 1 }),
    () => console.log(`New value of count: ${this.state.count}`
 render()
     div className="card text-center">
      <div className="card-header bg-primary text-white">Click Counter!</div>
      <div className="card-body">
        Click Count:
                                           {this.state.count}
          className="btn btn-primary"
          type="button"
          onClick={this.handleClick}
          Increment
```

#### Click Counter!

Click Count: 9

Increment

```
New value of count: 1

New value of count: 2

New value of count: 3

New value of count: 4

New value of count: 5

New value of count: 6

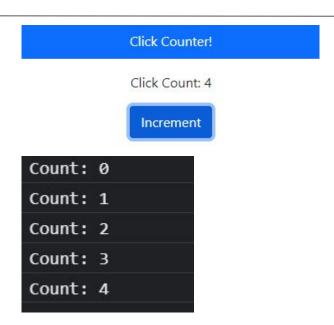
New value of count: 7

New value of count: 8

New value of count: 9
```

#### State with useState Hook

```
export default function Counter() {
 let [count, setCount] = useState(0);
 const handleClick = () => setCount((prevCount) => prevCount + 1);
 console.log(`Count: ${count}`);
   <div className="card text-center">
     <div className="card-header bg-primary text-white">Click Counter!</div>
     <div className="card-body">
       Click Count: {count}
       <button className="btn btn-primary" type="button" onClick={handleClick}>
        Increment
```



#### Further reading

Use this.setState with a class component:

https://reactjs.org/docs/react-component.html#setstate

Use the useState hook with a functional component:

https://reactjs.org/docs/hooks-state.html