Reference

How to use the useState hook in React! Each example demonstrates a different aspect of managing state in functional components.

- Basic Counter: Shows how to increment and decrement a count using useState.
- **Form Input State**: Demonstrates how to manage the state of a form input, updating it as the user types.
- **Toggle Visibility**: Illustrates how to toggle the visibility of an element, like showing or hiding a paragraph.
- Managing Multiple Pieces of State: Shows how to manage multiple state variables (e.g., name and age) within the same component.
- State with Initial Value from Props: Explains how to initialize a state variable with a value passed as a prop, useful for setting initial values.
- **Updating State Based on Previous State**: Highlights the best practice of using a functional update when the new state depends on the previous state, ensuring accuracy in asynchronous updates.

1. Basic Counter

This is a simple counter example that increments and decrements a count.

2. Form Input State

This example shows how to manage the state of a form input field.

```
import React, { useState } from 'react';
function Form() {
  const [name, setName] = useState('');

  const handleChange = (e) => {
    setName(e.target.value);
```

3. Toggle Visibility

This example demonstrates how to toggle the visibility of an element.

4. Managing Multiple Pieces of State

You can manage multiple pieces of state by calling useState multiple times.

5. State with Initial Value from Props

You can initialize state with a value derived from props.

6. Updating State Based on Previous State

When updating state based on the previous state, it's best to use a functional update to ensure you have the most recent state.

```
import React, { useState } from 'react';

function Counter() {
  const [count, setCount] = useState(0);

  const increment = () => {
    setCount((prevCount) => prevCount + 1);
  };

  return (
    <div>
        Count: {count}
        <button onClick={increment}>Increment</button>
        </div>
    );
}
```

export default Counter;