

React useState Examples - Beginner to Advanced

Basic Counter

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

function Counter() {

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

  return (

    <div>

      <h1>Count: {count}</h1>

      <button onClick={() => setCount(count + 1)}>Increment</button>

      <button onClick={() => setCount(count - 1)}>Decrement</button>

      <button onClick={() => setCount(0)}>Reset</button>

    </div>

  );

}

export default Counter;
```

Input State

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

function InputExample() {

  const [text, setText] = useState('');
```

```
return (  
  
  <div>  
  
    <input  
  
      type="text"  
  
      value={text}  
  
      onChange={(e) => setText(e.target.value)}  
  
    />  
  
    <p>You typed: {text}</p>  
  
  </div>  
  
);  
}
```

```
export default InputExample;
```

Toggle State

```
import React, { useState } from 'react';  
  
function ToggleExample() {  
  
  const [isOn, setIsOn] = useState(false);  
  
  return (  
  
    <div>  
  
      <button onClick={() => setIsOn(!isOn)}>  
  
        {isOn ? 'ON' : 'OFF'}  
  
      </button>  
  
    </div>  
  
  );  
}
```

```
    </div>

    );
}

export default ToggleExample;
```

Array State

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

function ArrayExample() {

  const [items, setItems] = useState([]);

  const addItem = () => {

    setItems([...items, `Item ${items.length + 1}`]);

  };

  return (

    <div>

      <button onClick={addItem}>Add Item</button>

      <ul>

        {items.map((item, index) => (

          <li key={index}>{item}</li>

        ))}

      </ul>

    </div>

  );
```

```
}
```

```
export default ArrayExample;
```

Object State

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

```
function ObjectExample() {
```

```
  const [user, setUser] = useState({ name: '', age: '' });
```

```
  return (
```

```
    <div>
```

```
      <input
```

```
        type="text"
```

```
        placeholder="Name"
```

```
        value={user.name}
```

```
        onChange={(e) => setUser({ ...user, name: e.target.value })}
```

```
      />
```

```
      <input
```

```
        type="number"
```

```
        placeholder="Age"
```

```
        value={user.age}
```

```
        onChange={(e) => setUser({ ...user, age: e.target.value })}
```

```
      />
```

```
      <p>Name: {user.name}</p>
```

```
      <p>Age: {user.age}</p>
```

```
    </div>

    );
}

export default ObjectExample;
```

Conditional Rendering

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

function ConditionalExample() {

  const [isLoggedIn, setIsLoggedIn] = useState(false);

  return (

    <div>

      {isLoggedIn ? (

        <p>Welcome, User!</p>

      ) : (

        <p>Please log in.</p>

      )}

      <button onClick={() => setIsLoggedIn(!isLoggedIn)}>

        {isLoggedIn ? 'Logout' : 'Login'}

      </button>

    </div>

  );
}
```

```
export default ConditionalExample;
```

State with Multiple Counters

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

function MultiCounter() {

  const [counters, setCounters] = useState([0, 0, 0]);

  const incrementCounter = (index) => {

    const newCounters = counters.map((count, i) =>

      i === index ? count + 1 : count

    );

    setCounters(newCounters);

  };

  return (

    <div>

      {counters.map((count, index) => (

        <div key={index}>

          <h2>Counter {index + 1}: {count}</h2>

          <button onClick={() => incrementCounter(index)}>Increment</button>

        </div>

      ))}

    </div>

  );

}
```

```
export default MultiCounter;
```

Dynamic Form Fields

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

```
function DynamicForm() {

  const [fields, setFields] = useState([{ name: '' }]);

  const addField = () => {

    setFields([...fields, { name: '' }]);

  };

  const updateField = (index, value) => {

    const newFields = [...fields];

    newFields[index].name = value;

    setFields(newFields);

  };

  return (

    <div>

      {fields.map((field, index) => (

        <input

          key={index}

          value={field.name}

          onChange={(e) => updateField(index, e.target.value)}

        />

      )}

    </div>

  );
}
```

```

        placeholder={`Field ${index + 1}`}

      />

    ))}

    <button onClick={addField}>Add Field</button>

  </div>

);

}

export default DynamicForm;

```

State with API Call Example

```

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

function FetchExample() {

  const [data, setData] = useState([]);

  const [loading, setLoading] = useState(true);

  useEffect(() => {

    fetch('https://jsonplaceholder.typicode.com/posts')

      .then((response) => response.json())

      .then((data) => {

        setData(data);

        setLoading(false);

      });

  }, []);

```



```

    if (loading) return <p>Loading...</p>;

    return (

      <div>

        <h1>Posts</h1>

        <ul>

          {data.slice(0, 5).map((post) => (

            <li key={post.id}>{post.title}</li>

          ))}

        </ul>

      </div>

    );
  }
}

```

```
export default FetchExample;
```

Debounced Input Example

```

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

function DebouncedInput() {

  const [text, setText] = useState('');

  const [debouncedText, setDebouncedText] = useState('');

  useEffect(() => {

    const handler = setTimeout(() => {

      setDebouncedText(text);
    }, 500);
  }, [text]);
}

```

```
    }, 500);

    return () => clearTimeout(handler);
  }, [text]);

return (
  <div>

    <input

      type="text"

      value={text}

      onChange={(e) => setText(e.target.value)}

    />

    <p>Debounced Text: {debouncedText}</p>

  </div>

);
}

export default DebouncedInput;
```