

Example 1

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

function FocusInput() {
  const inputRef = useRef(null); // This ref will point to the input element

  const handleClick = () => {
    if (inputRef.current) {
      inputRef.current.focus(); // Focus the input element
    }
  };

  return (
    <div>
      <h2>Click the Button to Focus Input</h2>
      <input
        type="text"
        ref={inputRef}
        placeholder="Click the button to focus me"
      />
      <br />
      <button onClick={handleClick}>Focus Input</button>
    </div>
  );
}

export default FocusInput;
```

Example 2

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

```
function Ref() {
```

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

```
  const renderCount = useRef(0);
```

```
  return (
```

```
    <div style={{display: 'flex', alignItems: 'center', flexDirection: 'column'}}>
```

```
      <div>
```

```
        <h2>Render Counter</h2>
```

```
        <p style={{width: '500px'}}>Ref counter increases when the button is pressed but it is not  
displayed because ref doesnot rerender component on every click. You can check the change in  
console</p>
```

```
        <button onClick={() => {
```

```
          renderCount.current = renderCount.current + 1;
```

```
          console.log("Ref count", renderCount.current);
```

```
        }}>Increase ref</button>
```

```
        <p>Ref count {renderCount.current}</p>
```

```
      </div>
```

```
    <div>
```

```
      <h2>State Counter</h2>
```

```
      <p style={{width: '500px'}}>When the state button is pressed the actual ref counter and state  
counter is displayed because usestate rerenders the component</p>
```

```
      <button onClick={() => {
```

```
        setCount(count+1);
```

```
      }}> Increase state</button>
```

```
      <p>State Count {count}</p>
```

```
    </div>
```

```
</div>
```

```
);  
}
```

export default Ref;

Click the Button to Focus Input

Click the button to focus me
Focus Input

Render Counter

Ref counter increases when the button is pressed but it is not displayed because ref doesnot rerender component on every click. You can check the change in console

Increase ref

Ref count 8

State Counter

When the state button is pressed the actual ref counter and state counter is displayed because usestate rerenders the component

Increase state

State Count 3

