# EVENT HANDLING

#### We will learn -

- How to detect when users interact with the app and
- How to render different things based on those events.
- Go here <a href="https://codesandbox.io/s/event-handling-in-react-forked-msr7np">https://codesandbox.io/s/event-handling-in-react-forked-msr7np</a>

## App.jsx - h1, input, button

```
    ⇔ App.jsx ×

                                           Browser
      import React from "react";
                                                                https://6v7385.csb.app/
      function App() {
        return (
          <div className="container">
            <h1>Hello</h1>
            <input type="text" placeholder="What's y</pre>
            <button>Submit
                                                                           Hello
          </div>
        );
                                                                             Submit
      export default App;
```

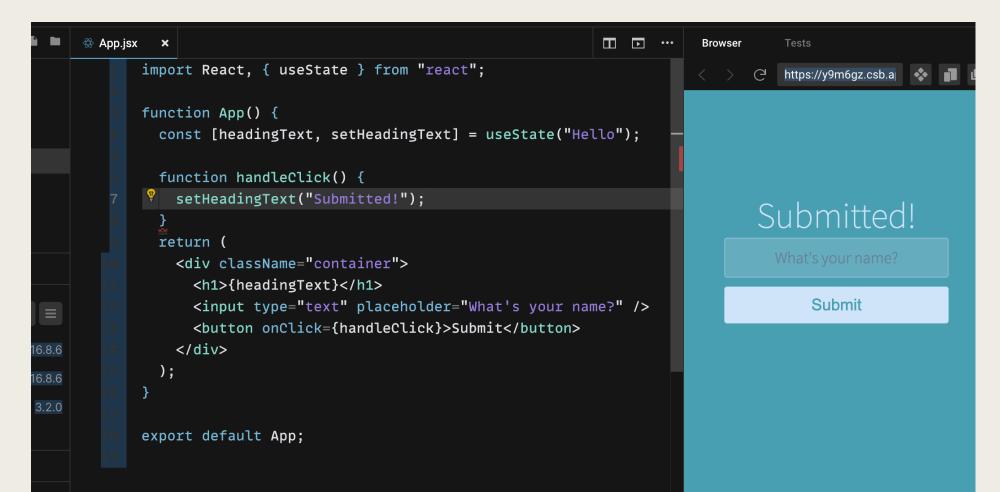
### Activating button: onClick, handleClick()

```
import React from "react";
                                                                         https://y9m6gz.csb.a
function App() {
 function handleClick(){
    console.log("clicked")
  return (
                                                                            Hello
    <div className="container">
      <h1>Hello</h1>
      <input type="text" placeholder="What's your name?" />
     <button onClick = {handleClick}>Submit</button>
    </div>
                                                                             Submit
 );
                                                                             Console 0
export default App;
                                                                  clicked
```

How can we change the content of h1 when the button is clicked?

#### const [headingText, setHeadingText] = useState();

■ Use useState() hooks, declare the starting state and a function that change that starting state.



### What are the different events?

■ List - https://www.w3schools.com/tags/ref\_eventattributes.asp

### Challenge:

■ Use onmouseout and onmouseover events to change the background color of submit button when hovered over.

#### Solution

■ Use onMouseOver = handleMouseOver

```
Drafts / Self- Event Handling in React (forked) ②
                                                                                       Create
                                                                                  C https:// 💠 🔳 💷
function App() {
  const [headingText, setHeadingText] = useState("Hello");
 function handleClick() {
    setHeadingText("Submitted!");
                                                                                   Hello
  function handleMouseOver() {
    console.log("moused over");
                                                                                    Submit
 return (
    <div className="container">
      <h1>{headingText}</h1>
                                                                            Problems 1
                                                                                          Console 0
      <input type="text" placeholder="What's your name?" />
      <button onClick={handleClick} onMouseOver={handleMouseOver}>
        Submit
                                                                              moused over
      </button>
   </div>
 );
export default App;
```

# Use State to change the background color

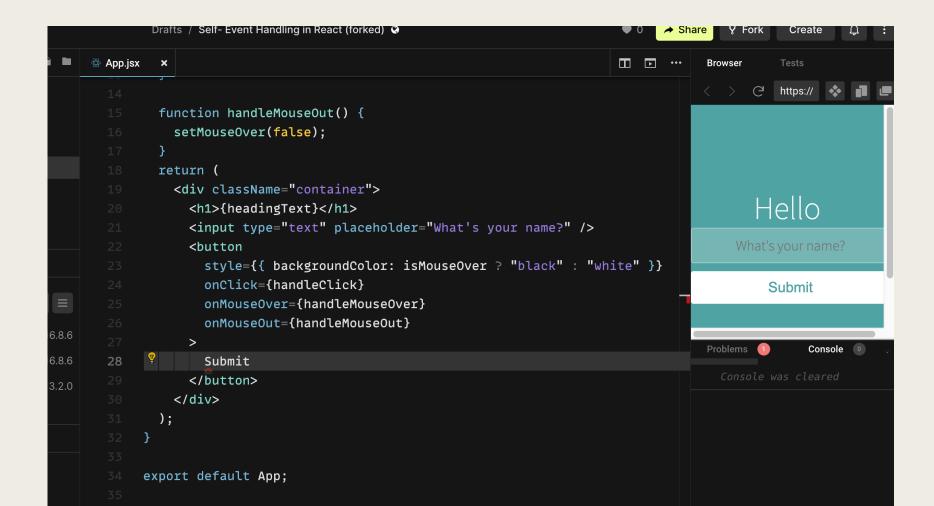
- const [isMouseOver, setMouseOver] = useState(false);
- Starting value is false assuming when the page loads, mouse will not be on the button.
- Once the event is triggered handleMouseOver() sets SetMouseOver(true);
- Also set a backgroundColor: "white"

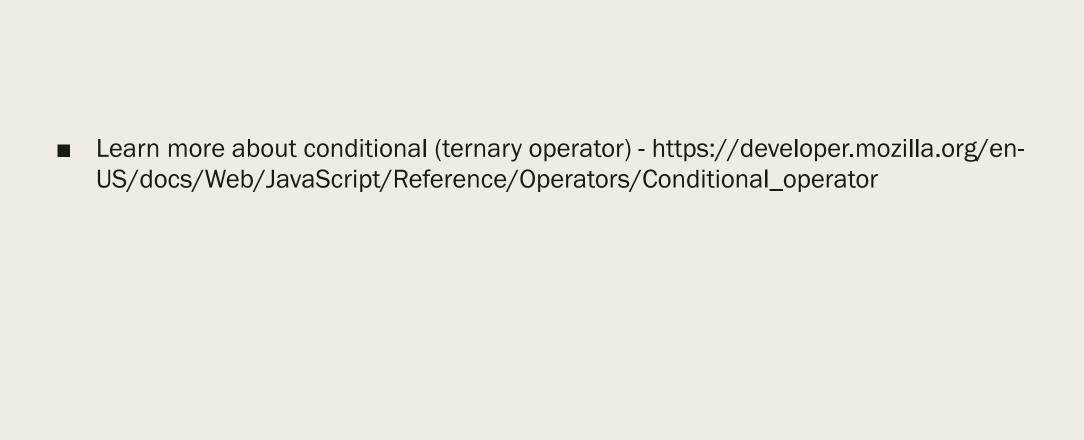
# Background color changed via mouseover

```
Drafts / Self- Event Handling in React (forked) @
                                                                                      ೪ Fork
                                                                                              Create
App.jsx ×
        const [isMouseOver, setMouseOver] = useState(false);
                                                                                         C https:// 💠 🔳 💷
        function handleClick() {
          setHeadingText("Submitted!");
        function handleMouseOver() {
                                                                                         Hello
          setMouseOver(true);
        return (
          <div className="container">
                                                                                           Submit
            <h1>{headingText}</h1>
            <input type="text" placeholder="What's your name?" />
            <button
                                                                                   Problems 1
                                                                                                 Console 0
              style={{ backgroundColor: isMouseOver ? "black" : "white" }}
              onClick={handleClick}
              onMouseOver={handleMouseOver}
              Submit
            </button>
          </div>
        );
```

How to change back to white color when mouse is out?

# Solution: HandleMouseOut is set to false





■ The full code can be viewed as - https://codesandbox.io/s/self-event-handling-in-react-forked-y9m6gz?file=/src/components/App.jsx