Javascript Chapter 5: UseEffect and UseState

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Use State

When we want to store variables that can change with the
application, we need to use useState

Use State Counter Example imports

```
// You'll need to add this at the top of your file,
// to let the page know you do not want to render it on
// the server
"use client";

// You'll need to import in the useState and useEffect
import { useState, useEffect } from 'react'
```

Use State Counter Example

```
export default function Home(){
    const [count, setCount] = useState(0)
    ...
}
```

Use State Counter Example

```
export default function Home(){
    const [count, setCount] = useState(0)
    return (
        <div className={styles.main}>
            <button onClick={() => setCount(count + 1)}>Increase Count</button>
            {count}
        </div>
    );
}
```

Use Effect

When we want to have a variable which reacts to the change, we can use useEffect

Use Effect Counter Example

```
export default function Home(){
    const [count, setCount] = useState(0)

    useEffect(() => {
        console.log(count);
    }, [count]);
    ...
}
```

Use Effect Counter Example without variable capture

```
export default function Home(){
    const [count, setCount] = useState(0)

    useEffect(() => {
        console.log(count);
    });
    ...
}
```

Use State Exercise

Attempt to have a webpage which takes in the users miles driven and gallons used and calculates their mpg.

Hint: Use input html