



# DEPENDENCY ARRAY

## WHAT'S THE USEEFFECT DEPENDENCY ARRAY?

### THE DEPENDENCY ARRAY

- 👉 By default, effects run **after every render**. We can prevent that by passing a **dependency array**
- 👉 Without the dependency array, React doesn't know **when** to run the effect
- 👉 *Each time one of the dependencies changes, the effect will be executed again*
- 👉 Every **state variable** and **prop** used inside the effect **MUST** be included in the dependency array

```
const title = props.movie.Title;
const [userRating, setUserRating] = useState('');

useEffect(
  function () {
    if (!title) return;
    document.title = `${title} ${
      userRating && `(Rated ${userRating} ⭐)`
    }`;
    return () => (document.title = 'usePopcorn');
  },
  [title, userRating]
);
```

Otherwise, we get a "stale closure". We will go more into depth in a future section 👉

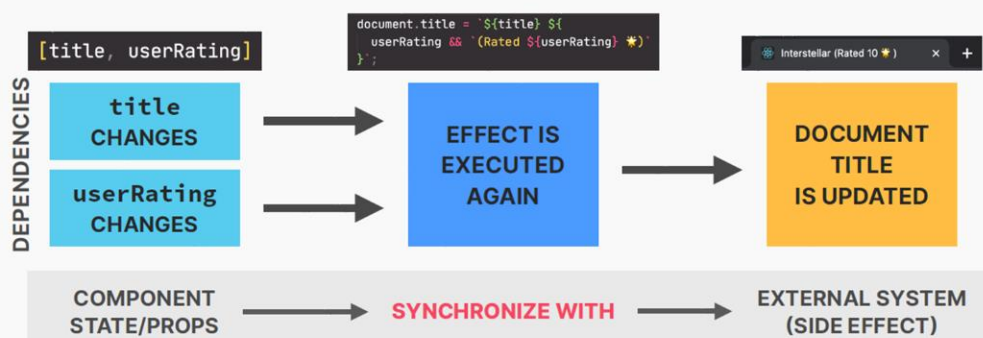




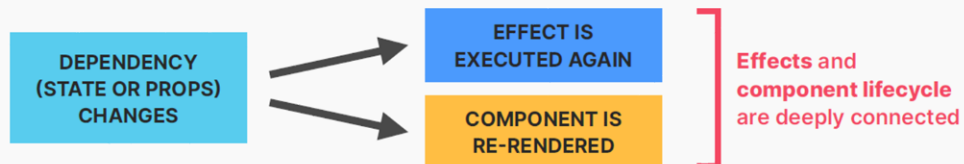
## USEEFFECT IS A SYNCHRONIZATION MECHANISM

### THE MECHANICS OF EFFECTS

- 👉 `useEffect` is like an **event listener** that is listening for one dependency to change. **Whenever a dependency changes, it will execute the effect again**
- 👉 Effects **react** to updates to state and props used inside the effect (the dependencies). So effects are **"reactive"** (like state updates re-rendering the UI)



## SYNCHRONIZATION AND LIFECYCLE



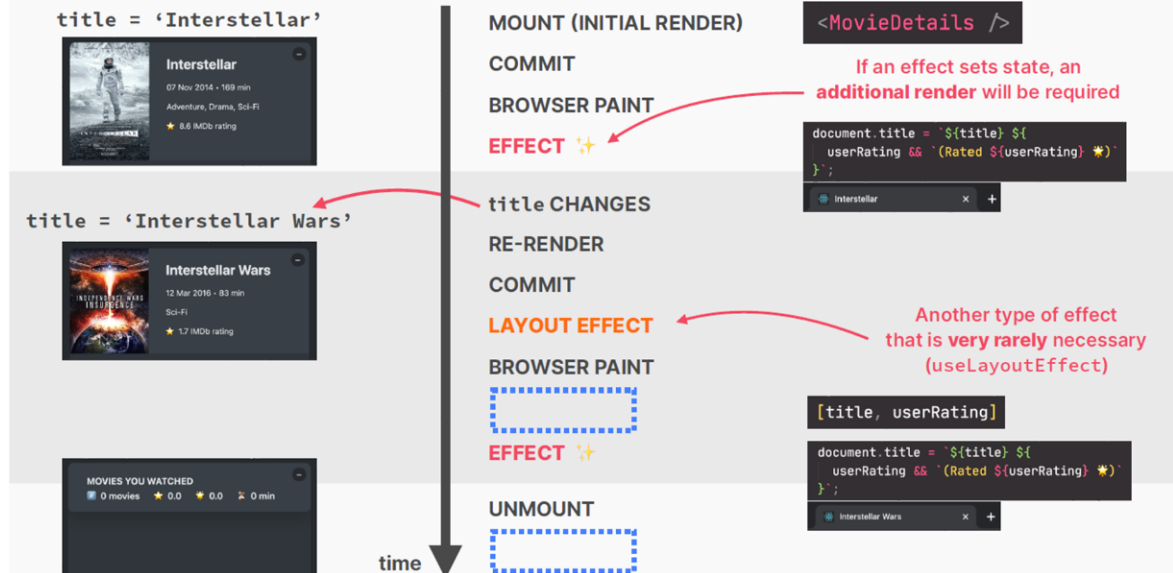
👉 We can use the dependency array to run effects **when the component renders or re-renders**

	SYNCHRONIZATION	LIFECYCLE
<code>useEffect(fn, [x, y, z]);</code>	Effect synchronizes with x, y, and z	Runs on <b>mount</b> and <b>re-renders</b> triggered by updating x, y, or z
<code>useEffect(fn, []);</code>	Effect synchronizes with <b>no state/props</b>	Runs only on <b>mount</b> (initial render)
<code>useEffect(fn);</code>	Effect synchronizes with <b>everything</b>	Runs on <b>every render</b> (usually bad ☹️)





## WHEN ARE EFFECTS EXECUTED?





```
useEffect(()=>
{
  const callback = (e)=>
  {
    if(e.code === "Escape")
    {
      onCloseMovie();
    }
  }

  document.addEventListener("keydown", callback);

  return ()=>
  {
    document.removeEventListener("keydown", callback);
  }

}, [onCloseMovie]);
```





```
useEffect(()=>
{
  if(!title) return;

  document.title = `Movie | ${title}`;

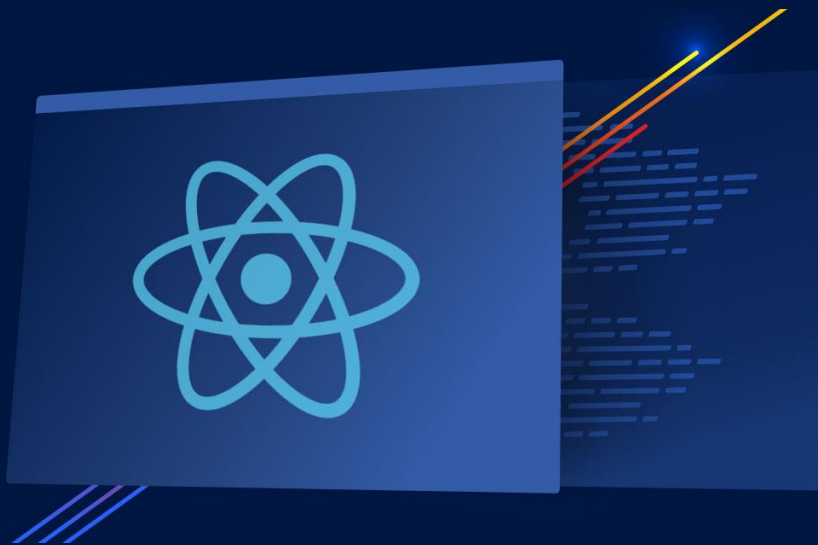
  return ()=>
  {
    document.title = `usePopcorn Project`;
  }
}, [title]);
```





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