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What's New In

React 19

2025

Let's Get Started



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1

React Compiler

NEW





It replaces below hooks:

01 ~~useXemo~~

02 ~~useXallback~~

03 ~~meXo~~



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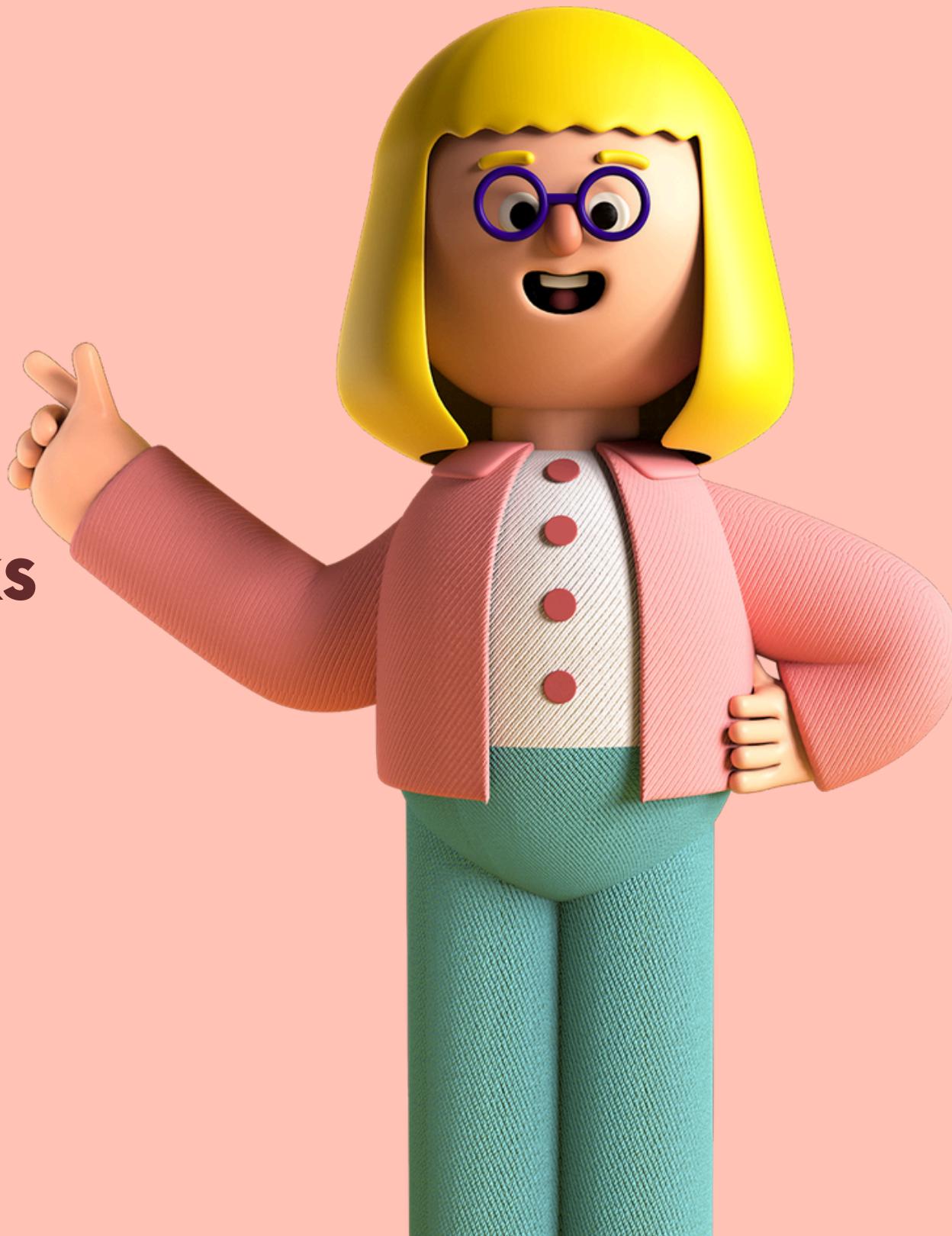


use hook



It replaces `useEffect`, `useContext` hooks

It simplifies the API calls





NEW

Actions

3!



functions that use async transitions are called “**Actions**”.

01 useActionState



02 useFormStatus



03 useOptimistic





no more ~~forwardRef~~

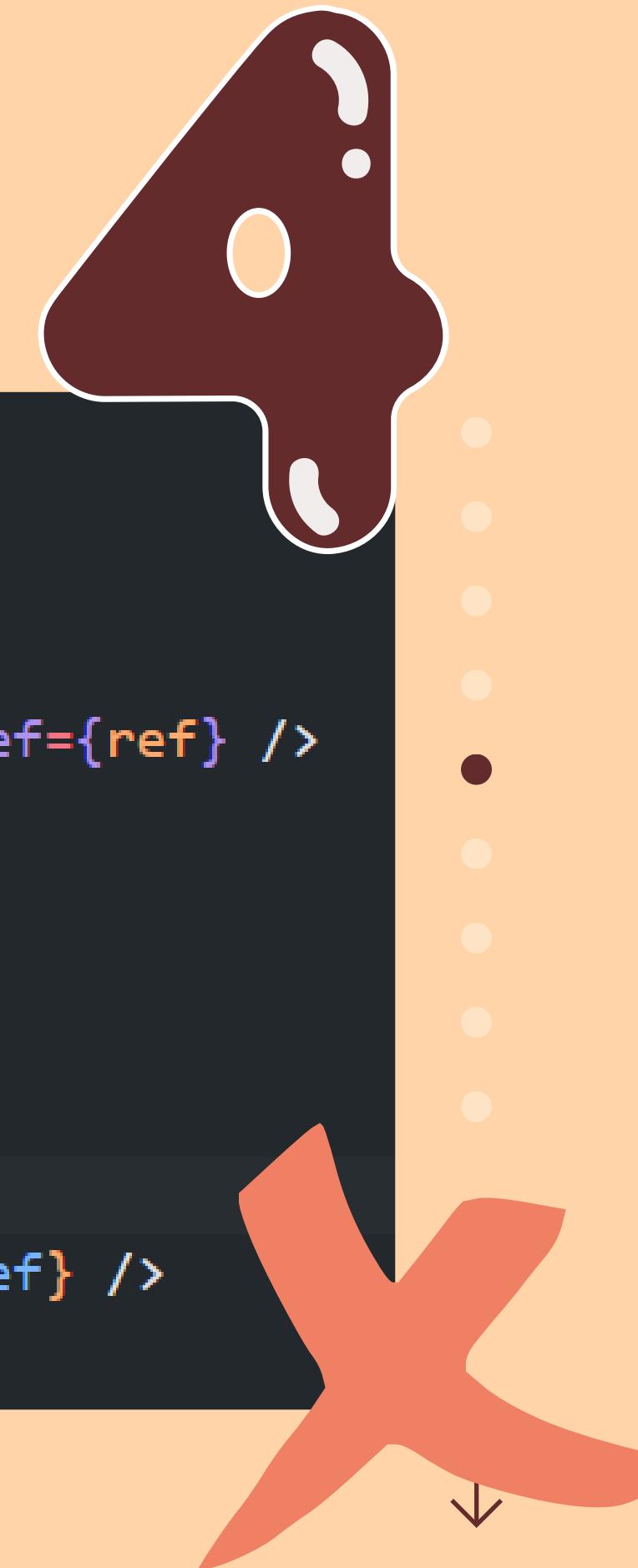


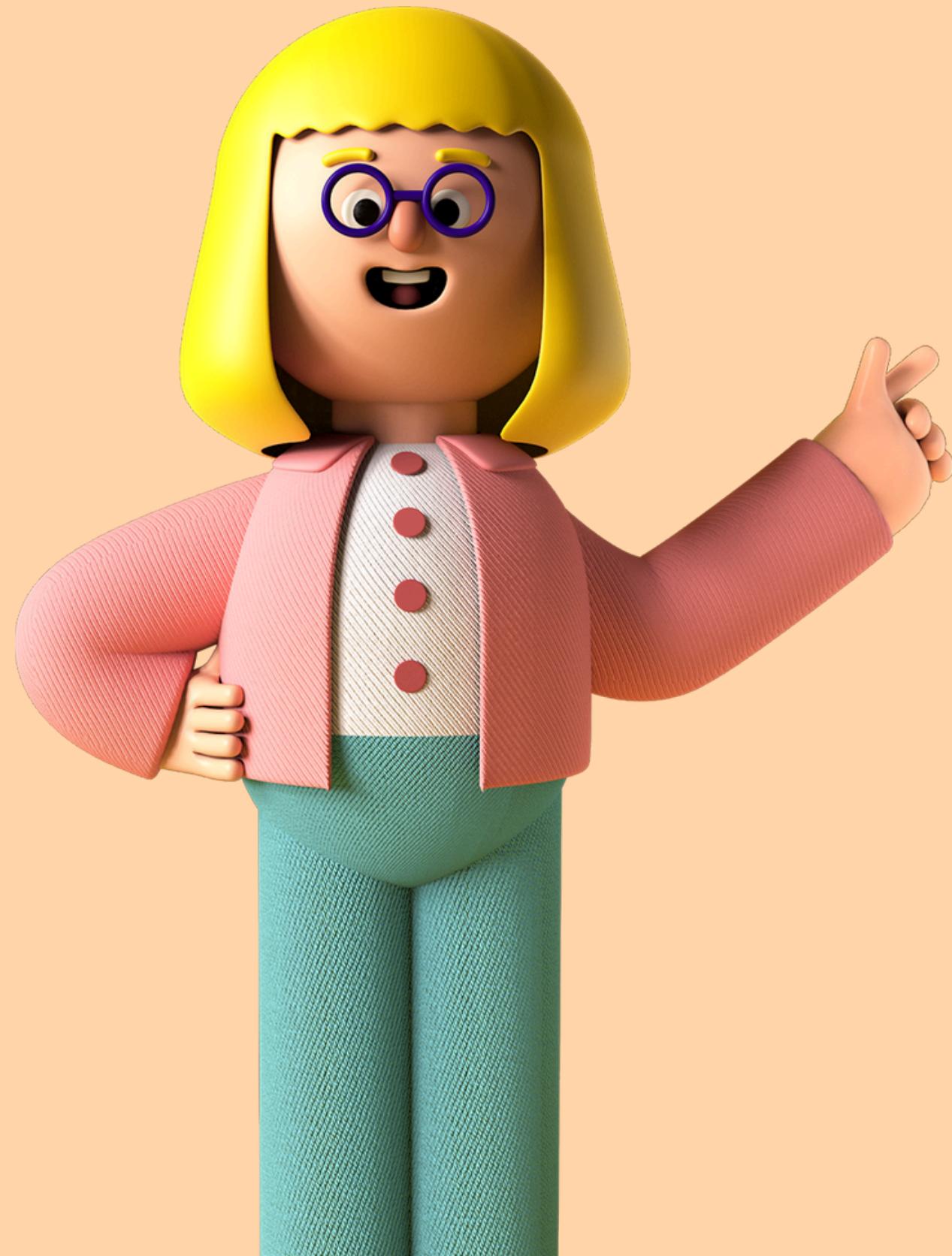
```
import { forwardRef, useRef } from "react";

// eslint-disable-next-line react/display-name
const MyInput=forwardRef((props,ref)=> {
  return <input placeholder={props.placeholder} ref={ref} />
});

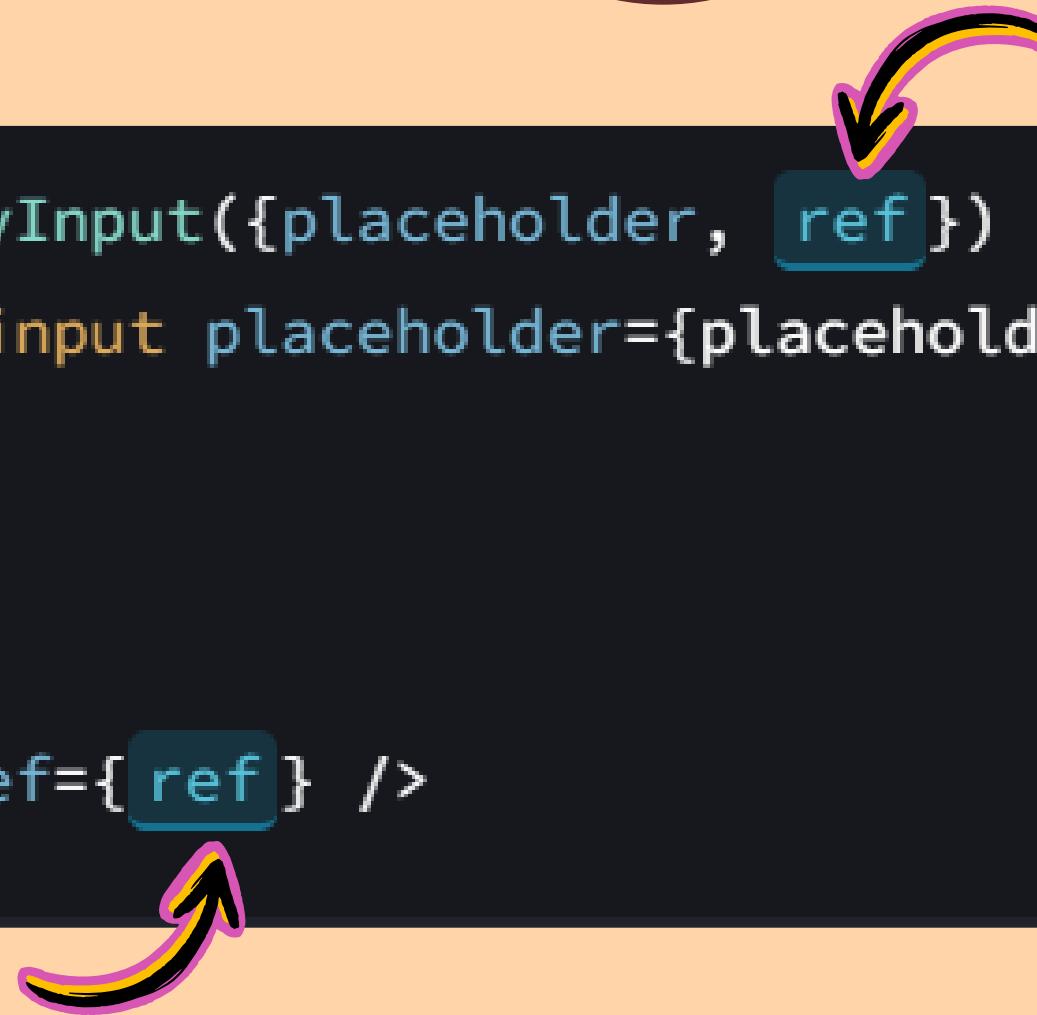
const App=()=>{
  const ref=useRef(null);

  return <MyInput placeholder="Enter name" ref={ref} />
}
```





```
function MyInput({placeholder, ref}) {  
  return <input placeholder={placeholder} ref={ref} />  
}  
  
// ...  
<MyInput ref={ref} />
```





5

Context as Provider

```
const ThemeContext = createContext('');  
  
function App({children}) {  
  return (  
    <ThemeContext.Provider value="dark">  
      {children}  
    </ThemeContext.Provider>  
  );  
}
```

```
const ThemeContext = createContext('');  
  
function App({children}) {  
  return (  
    <ThemeContext value="dark">  
      {children}  
    </ThemeContext>  
  );  
}
```

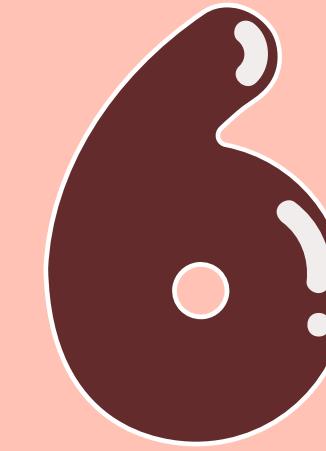




NEW

Metadata

Support for Document Metadata



```
function BlogPost({post}) {  
  return (  
    <article>  
      <h1>{post.title}</h1>  
      <check> <title>{post.title}</title>  
      <check> <meta name="author" content="Josh" />  
      <check> <link rel="author" href="https://twitter.com/joshcstory/" />  
      <check> <meta name="keywords" content={post.keywords} />  
      <p>  
        Eee equals em-see-squared...  
      </p>  
    </article>  
  );  
}
```

<https://react.dev/blog/2024/12/05/react-19>



Summary

1. React Compiler = no more “useMemo, useCallback, memo”
2. new “use” hook
3. Actions - useState, useFormStatus, useOptimistic
4. no more forwardRef
5. Context as Provider
6. Metadata for every component



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Thank You For Watching

Happy Coding!

