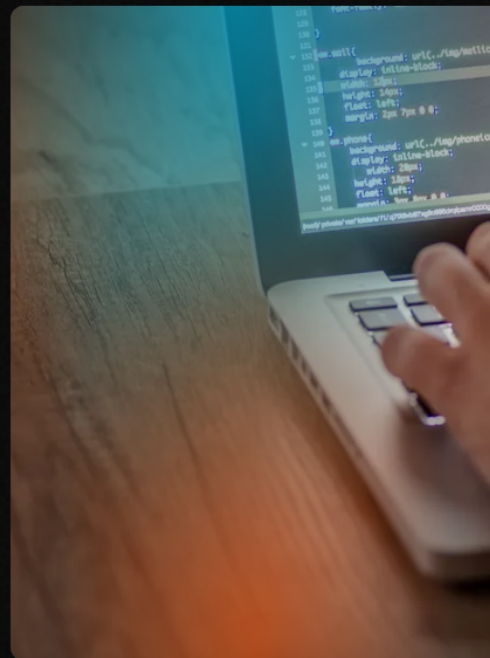
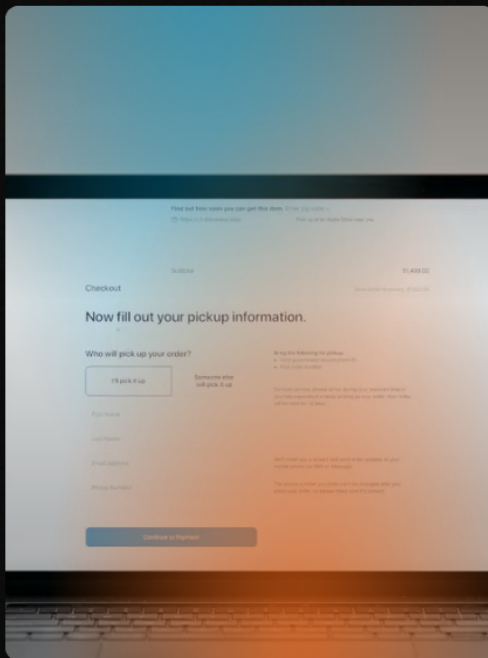


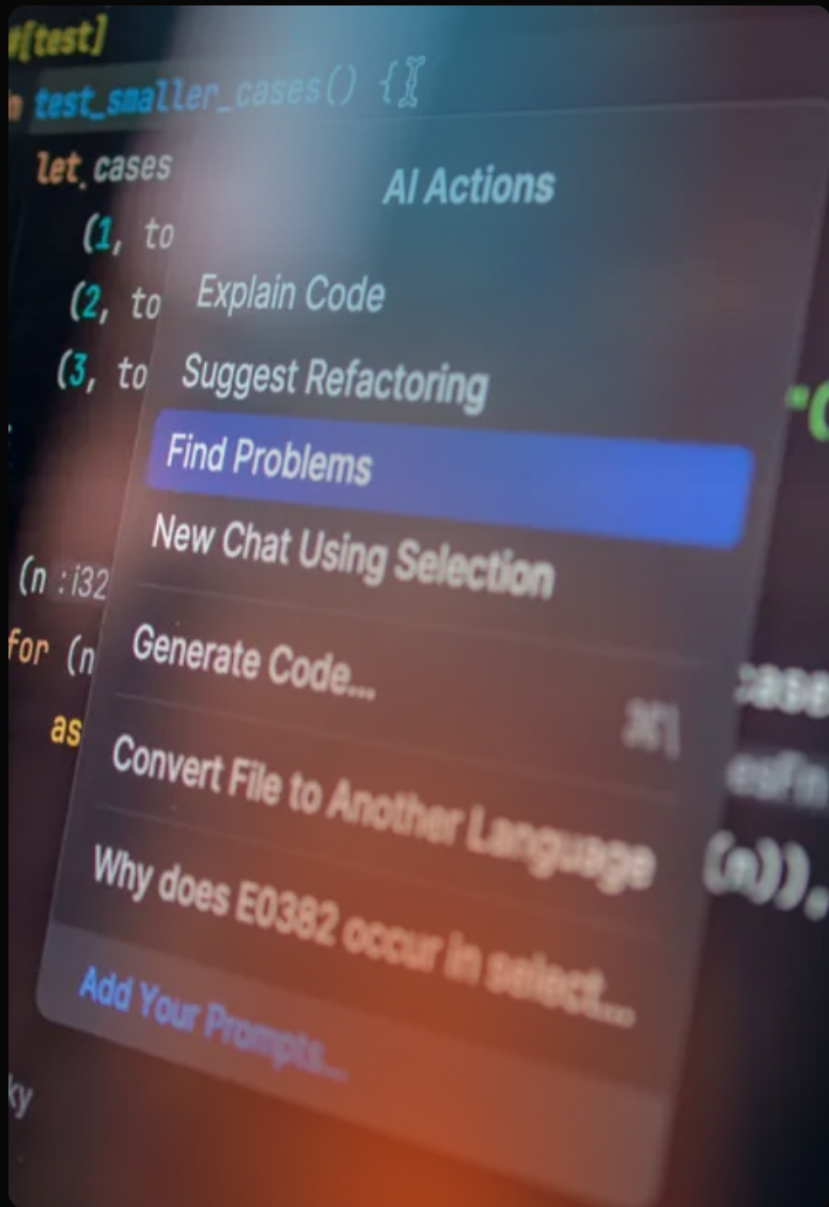
# React 19



# Actions, new hooks and a lighter component API



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#### THE PROBLEM ACTIONS SOLVE

Before React 19, a form that updates a name needed its own `useState` for the value, the error and `isPending`, plus manual handling of optimistic updates and sequential requests.

React 19 lets async functions run inside transitions. By convention these are called Actions, and they manage pending state, errors, optimistic updates and form resets for you.

3

NEW HOOKS: `USEACTIONSTATE`,  
`USEFORMSTATUS`, `USEOPTIMISTIC`

1

NEW API TO READ RESOURCES IN  
RENDER: `USE`

0

FORWARDREF NEEDED FOR NEW  
FUNCTION COMPONENTS



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THE HEADLINE

A form can now pass a function straight to its action prop. React submits it, tracks pending state, and resets the form when it succeeds.



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`<form action={submitAction}>` works with `useActionState`

# Three hooks replace **most hand-written form state**.

## **useActionState**

Wraps an Action and returns its last result and pending state. It replaces `ReactDOM.useFormState` from Canary.

## **useFormStatus**

Reads the parent form's status like a Context, so design-system buttons can disable themselves.

## **useOptimistic**

Shows the final value at once and switches back if the request fails.



# Quality-of-life improvements

01

## ref as a prop

Function components read ref directly, without forwardRef.

02

## as provider

Render instead of Context.Provider.

03

## Document metadata

title, link and meta tags can be rendered from any component.

**use**

READS PROMISES AND CONTEXT, EVEN  
CONDITIONALLY

**RSC**

SERVER COMPONENTS STABLE IN REACT  
19

**100%**

CUSTOM ELEMENTS EVERYWHERE TESTS  
PASSING



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Upgrade, then **delete boilerplate** one form at a time.

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**Read the Upgrade Guide**

React lists the breaking changes in a separate React 19 Upgrade Guide.

**Convert forms**

Move submit handlers to form Actions with `useActionState`.

**Pin for RSC**

Bundler APIs for Server Components may break between minors, so pin a React version.



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