React

The library for web and native user interfaces

Learn React | API Reference

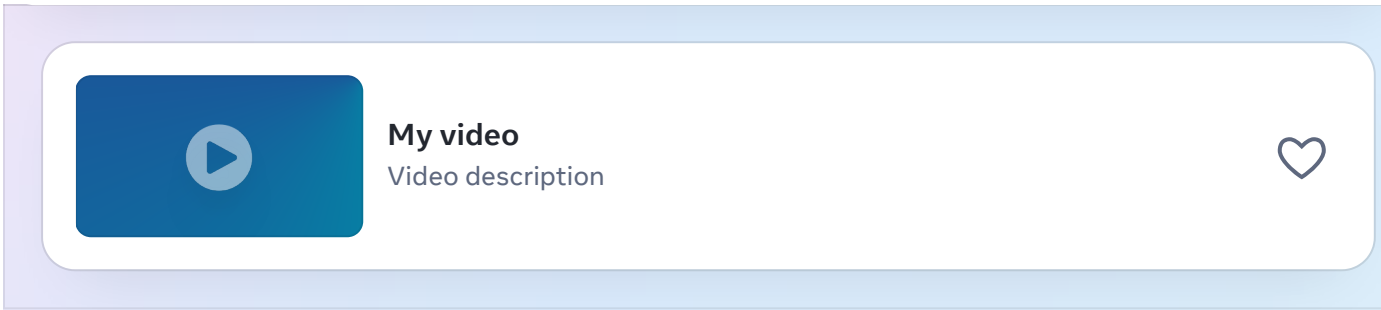
Create user interfaces from components

React lets you build user interfaces out of individual pieces called components. Create your own React components like `Thumbnail`, `LikeButton`, and `Video`. Then combine them into entire screens, pages, and apps.

Video.js

```
function Video({ video }) {
  return (
    <div>
      <Thumbnail video={video} />
      <a href={video.url}>
```

```
        <h3>{video.title}</h3>
        <p>{video.description}</p>
      </a>
      <LikeButton video={video} />
    </div>
  );
}
```



Whether you work on your own or with thousands of other developers, using React feels the same. It is designed to let you seamlessly combine components written by independent people, teams, and organizations.

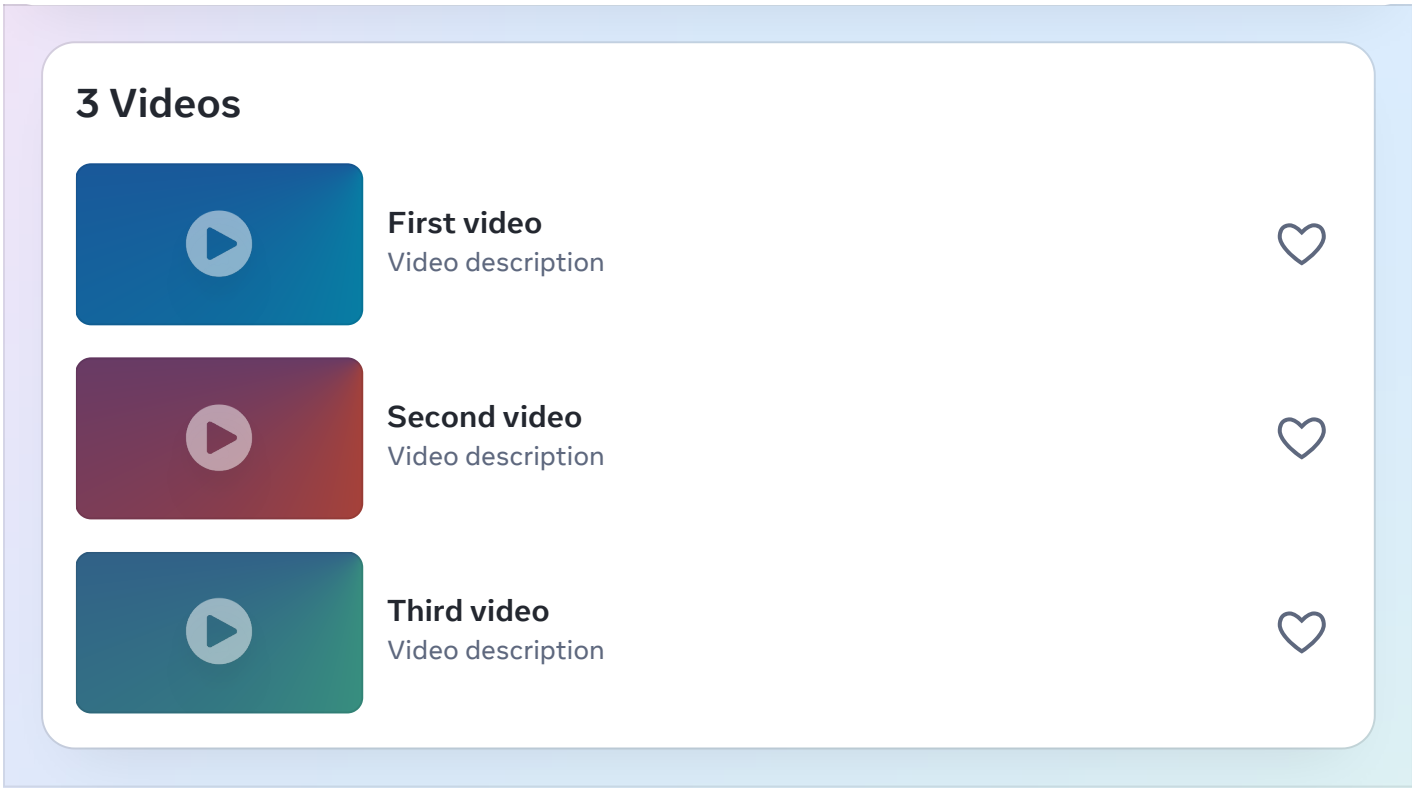
Write components with code and markup

React components are JavaScript functions. Want to show some content conditionally? Use an `if` statement. Displaying a list? Try array `map()`. Learning React is learning programming.

VideoList.js

```
function VideoList({ videos, emptyHeading }) {
  const count = videos.length;
  let heading = emptyHeading;
  if (count > 0) {
    const noun = count > 1 ? 'Videos' : 'Video';
    heading = count + ' ' + noun;
```

```
  }
  return (
    <section>
      <h2>{heading}</h2>
      {videos.map(video =>
        <Video key={video.id} video={video} />
      )}
    </section>
  );
}
```



This markup syntax is called JSX. It is a JavaScript syntax extension popularized by React. Putting JSX markup close to related rendering logic makes React components easy to create, maintain, and delete.

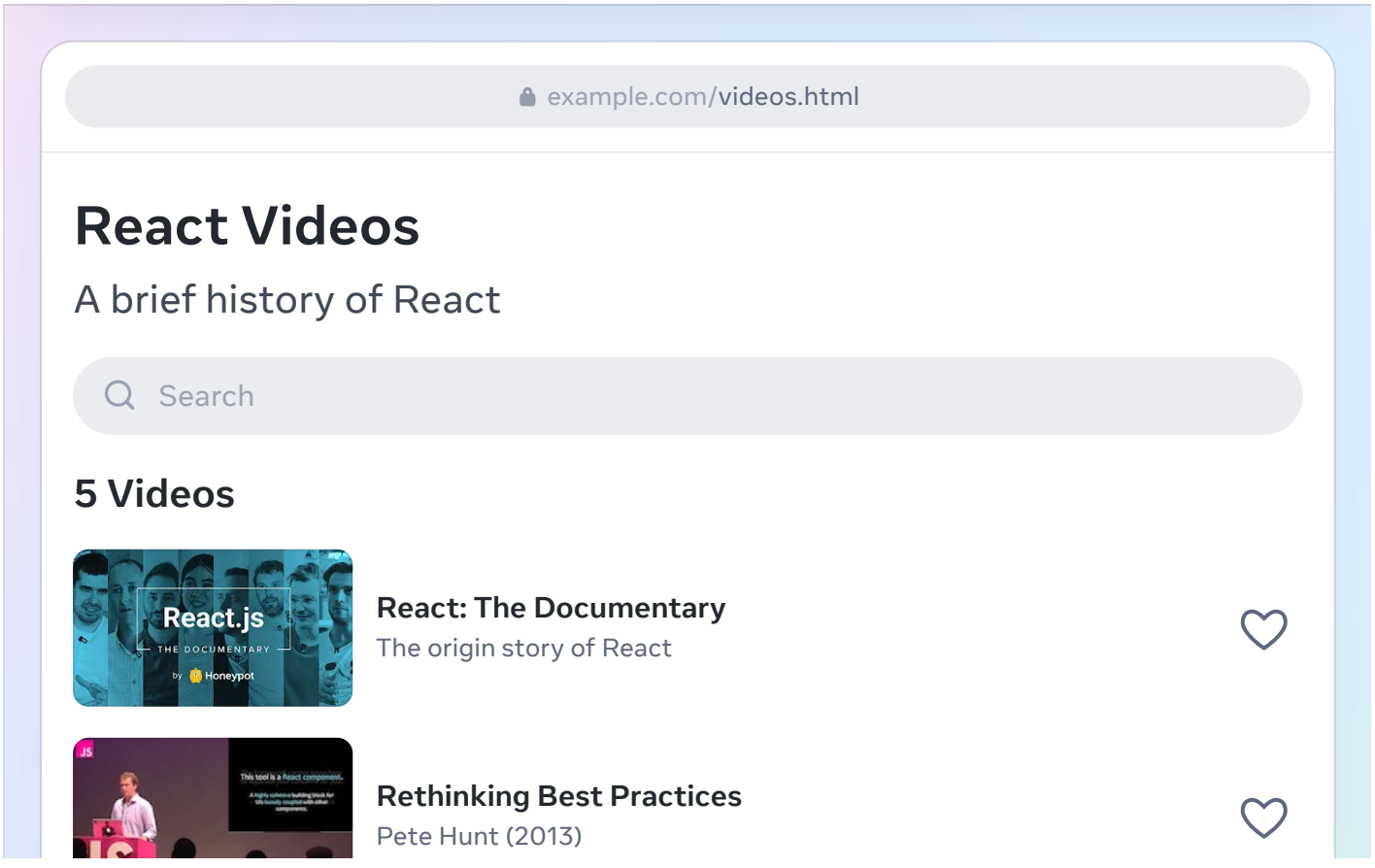
Add interactivity wherever you need it

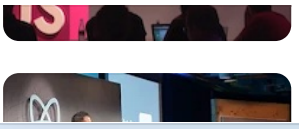
React components receive data and return what should appear on the screen. You can pass them new data in response to an interaction, like when the user types into an input. React will then update the screen to match the new data.

SearchableVideoList.js

```
import { useState } from 'react';

function SearchableVideoList({ videos }) {
  const [searchText, setSearchText] = useState('');
  const foundVideos = filterVideos(videos, searchText);
  return (
    <>
      <SearchInput
        value={searchText}
        onChange={newText => setSearchText(newText)} />
      <VideoList
        videos={foundVideos}
        emptyHeading={`No matches for “${searchText}”`} />
    </>
  );
}
```





You don’t have to build your whole page in React. Add React to your existing HTML page, and render interactive React components anywhere on it.

</> Add React to your page >

Go full-stack with a framework

React is a library. It lets you put components together, but it doesn’t prescribe how to do routing and data fetching. To build an entire app with React, we recommend a full-stack React framework like Next.js or React Router.

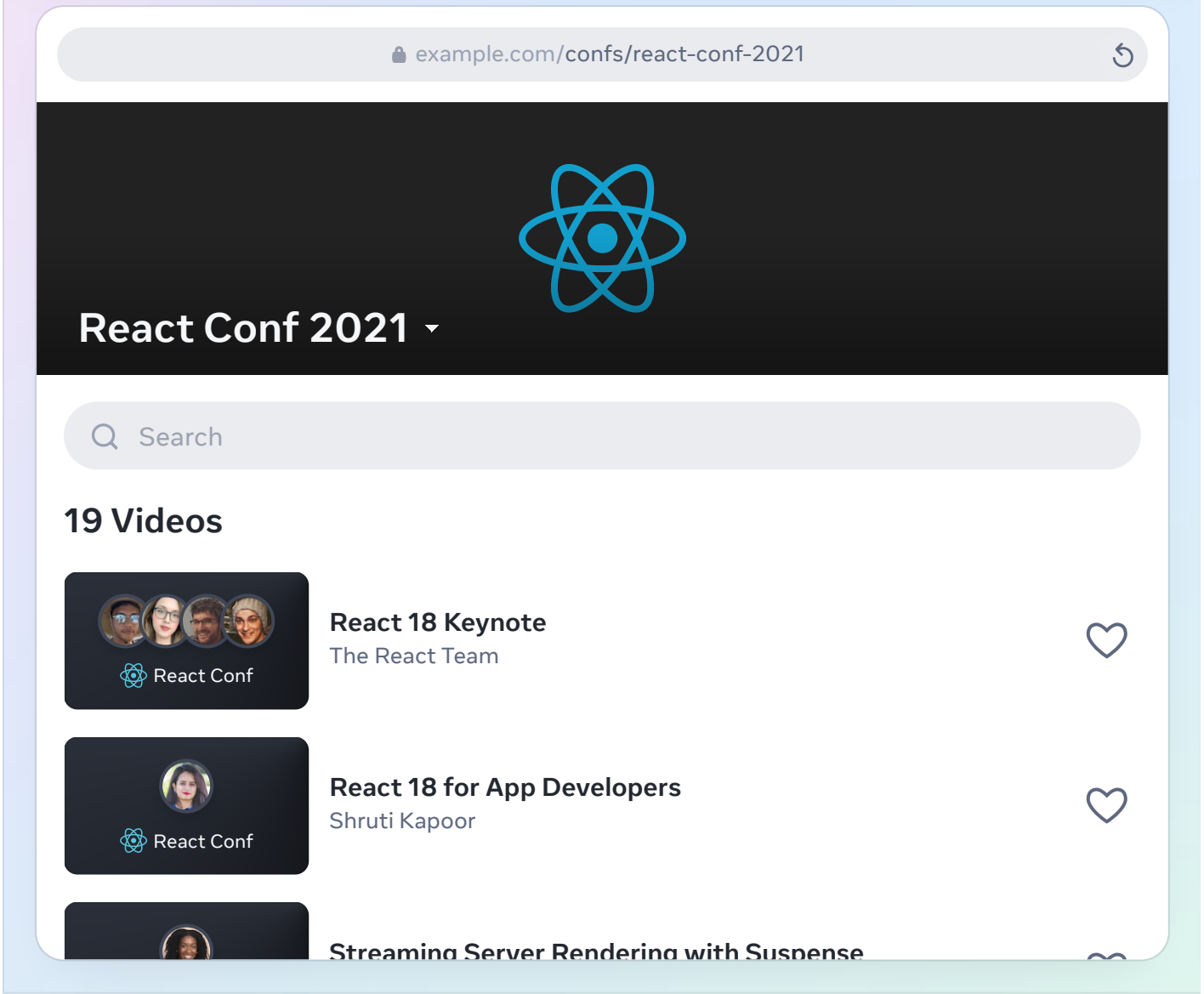
confs/[slug].js

```
import { db } from './database.js';
import { Suspense } from 'react';

async function ConferencePage({ slug }) {
  const conf = await db.Confs.find({ slug });
  return (
    <ConferenceLayout conf={conf}>
      <Suspense fallback={<TalksLoading />}>
        <Talks confId={conf.id} />
      </Suspense>
    </ConferenceLayout>
  );
}

async function Talks({ confId }) {
  const talks = await db.Talks.findAll({ confId });
```

```
  const videos = talks.map(talk => talk.video);
  return <SearchableVideoList videos={videos} />;
}
```



React is also an architecture. Frameworks that implement it let you fetch data in asynchronous components that run on the server or even during the build. Read data from a file or a database, and pass it down to your interactive components.

Get started with a framework ›

Use the best from every platform

People love web and native apps for different reasons. React lets you build both web apps and native apps using the same skills. It leans upon each platform's unique strengths to let your interfaces feel just right on every platform.

example.com

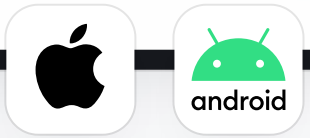
Stay true to the web

People expect web app pages to load fast. On the server, React lets you start streaming HTML while you're still fetching data, progressively filling in the remaining content before any JavaScript code loads. On the client, React can use standard web APIs to keep your UI responsive even in the middle of rendering.

1:08 AM

Go truly native

People expect native apps to look and feel like their platform. React Native and Expo let you build apps in React for Android, iOS, and more. They look and feel native because their UIs *are* truly native. It's not a web view—your React components render real Android and iOS views provided by the platform.



With React, you can be a web *and* a native developer. Your team can ship to many platforms without sacrificing the user experience. Your organization can bridge

the platform silos, and form teams that own entire features end-to-end.

Build for native platforms >

Upgrade when the future is ready

React approaches changes with care. Every React commit is tested on business-critical surfaces with over a billion users. Over 100,000 React components at Meta help validate every migration strategy.

The React team is always researching how to improve React. Some research takes years to pay off. React has a high bar for taking a research idea into production. Only proven approaches become a part of React.

LATEST REACT NEWS

Additional Vulnerabilities in RSC

December 11, 2025

Vulnerability in React Server Components

December 3, 2025

React Conf 2025 Recap

October 16, 2025

React Compiler v1.0

October 7, 2025

Read more React news >

Join a community of millions

You're not alone. Two million developers from all over the world visit the React docs every month. React is something that people and teams can agree on.

This is why React is more than a library, an architecture, or even an ecosystem. React is a community. It's a place where you can ask for help, find opportunities, and meet new friends. You will meet both developers and designers, beginners and experts, researchers and artists, teachers and students. Our backgrounds may be very different, but React lets us all create user interfaces together.

Welcome to the React community

Get Started

Meta Open Source

uwu?

Learn React

Quick Start

API Reference

React APIs

Community

More