Welcome



What is Remix?

Remix is a full stack web framework that lets you focus on the user interface and work back through web standards to deliver a fast, slick, and resilient user experience.

Why another JS framework?

Web dev history

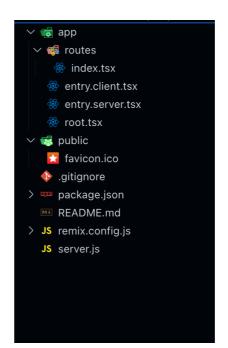
- ...
- Backend MVC
- SPA
- SSR
- SSG
- ISR
- DPR
- **.**..

Philosophy of Remix

- Server/Client Model
- Web Standards, HTTP, and HTML
- Progressive Enhancement
- Don't Over Abstract

Let's start

- app/routes File based routes
- app/entry.[client/server].ts Browser / Server
 render's entry point
- app/root.tsx Root route, other route will render under this layout
- remix.config.js ← Remix configuration file
- server.js Express.js adapter, different for each adapter



Elements in a typical page

- Page react component
- loader function
- action function
- links function
- meta function

Fetch data

- loader is running on Server side
- useLoaderData is a hook to get the data returned by the loader function

```
import { json } from "@remix-run/node";
import { useLoaderData } from "@remix-run/react";
export const loader = async () => {
        slug: "my-first-post",
        title: "My First Post",
        slug: "90s-mixtape",
        title: "A Mixtape I Made Just For You",
export default function Posts() {
  const { posts } = useLoaderData();
  return (
    <main>
      <h1>Posts</h1>
    </main>
```

Mutation

- Form is an enhancement of form tag
- action is running after a POST request received
- redirect returns a header in response

It still could work if the browser disabled javascript.

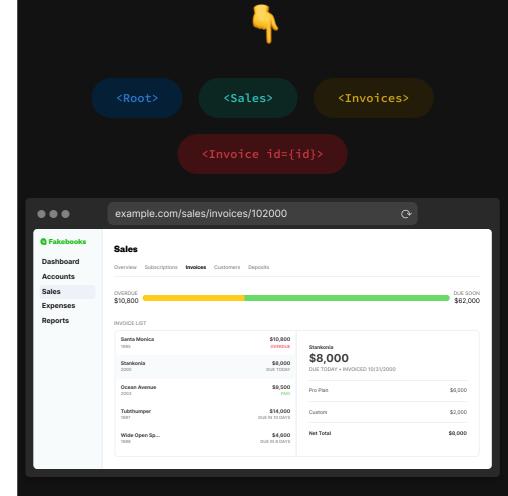
```
import { Form } from "@remix-run/react";
import { redirect } from "@remix-run/node";
import { createPost } from "~/models/post.server";
export const action = async ({ request }) => {
  const formData = await request.formData();
  const title = formData.get("title");
  await createPost({ title });
  return redirect("/posts");
export default function NewPost() {
  return (
    <Form method="post">
      <label>
        Post Title:{" "}
        <input type="text" name="title" />
      </label>
      <button type="submit">
        Create Post
      </button>
    </Form>
```

Progressive Enhancement

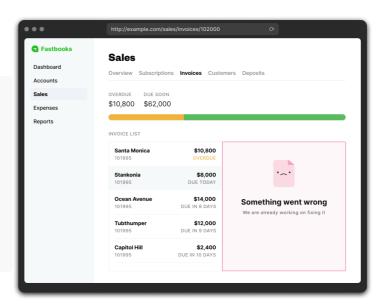
- useTransition understand the state of current action
- useTransition/useActionData/useLoaderData are hooks
- Optimistic UI

```
import { json, redirect } from "@remix-run/node";
import {
 Form,
 useActionData,
 useTransition,
// ..
export default function NewPost() {
 useActionData();
 const transition = useTransition();
 const isCreating = Boolean(transition.submission);
 if (transition.submission) {
   const title = transition.submission.formData.get('title')
   return <Post title={title} />
 return
   <Form method="post">
     {/* ... */}
     <button type="submit" disabled={isCreating}>
         {isCreating ? "Creating..." : "Create Post"}
       </button>
     </Form>
```

Nested Routing



Error Boundary



MISC

- Link
- useFetcher
- cookie and session
- PrefetchPageLinks
- Remix Stacks
- • •

Remix vs Next.js

Remix has a better set of tradeoffs than Next.js.

- Remix is as fast or faster than Next.js at serving static content
- Remix is faster than Next.js at serving dynamic content
- Remix enables fast user experiences even on slow networks
- Remix automatically handles errors, interruptions, and race conditions, Next.js doesn't
- Next.js encourages client side JavaScript for serving dynamic content, Remix doesn't
- Next.js requires client side JavaScript for data mutations, Remix doesn't
- Next.js build times increase linearly with your data, Remix build times are nearly instant and decoupled from data
- Next.js requires you to change your application architecture and sacrifice performance when your data scales
- We think Remix's abstractions lead to better application code

https://remix.run/blog/remix-vs-next

Why Remix fast than Next.js

- all fast for static content
- SSR can be cached on CDN
- The rewrite one caches data at the edge in Redis



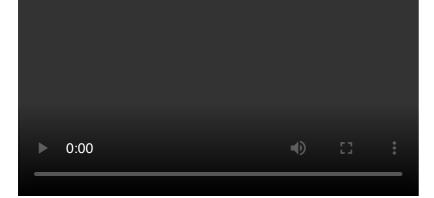
Why Remix fast than Next.js

- all fast for dynamic content
- Next.js have a network request waterfall

Remix Rewrite	Remix Port	Next.js
0.0	0.0	0.0

Why Remix fast than Next.js

PrefetchPageLinks



What is Remix!

Remix is a full stack web framework that lets you focus on the user interface and work back through web standards to deliver a fast, slick, and resilient user experience.

Thank you

- https://remix.run/docs/en/v1
- https://kentcdodds.com/blog
- https://www.youtube.com/playlist?list=PLXoynULbYuEDG2wBFSZ66b85EIspy3fy6
- https://github.com/remix-run/remix/blob/main/docs/pages/contributing.md