Remix presentation beta.gouv.fr

# C'est quoi Remix?

## React Router v6

## React Router v6 + Remix

```
<Routes>
     <Route file="root.tsx">
          <Route index file="routes/index.tsx" />
          <Route path="signin" file="routes/signin.tsx" />
          <Route path="signout" file="routes/signout.tsx" />
          <Route path="todos" file="routes/todos.tsx">
                <Route index file="routes/todos/index.tsx" />
                <Route path="$id" file="routes/todos/$id.tsx" />
                </Route>
          </Route>
          </Route>
          </Routes>
```

## **Backend**

#### RouteModule

```
export interface RouteModule {
 handle?: RouteHandle;
  links?: LinksFunction;
 meta?: MetaFunction | HtmlMetaDescriptor;
  headers?: HeadersFunction | { [name: string]: string };
 CatchBoundary?: CatchBoundaryComponent;
  ErrorBoundary?: ErrorBoundaryComponent;
  loader?: LoaderFunction;
 action?: ActionFunction;
 default: RouteComponent;
```

## Links

```
export const links = () => [
    rel: 'stylesheet',
    href: '/tailwind.css'
    rel: 'apple-touch-icon',
    sizes: '180x180',
    href: '/apple-touch-icon.png',
    rel: 'icon',
    type: 'image/png',
    sizes: '32x32',
    href: '/favicon-32x32.png',
```

## Meta

```
export const meta = ({ data }) => ({
  title: `My Beautiful Website | ${data.title}`,
  description: 'A good description'
});
```

#### **Fetch API**

```
const response = await fetch('https://my.api.com', {
  headers: { accept: 'application/json' }
});
response // type Response
const request = Request('https://my.api.com', {
  headers: { accept: 'application/json' }
});
request // type Request
await fetch(request);
```

#### **Data Function**

```
({ request, params }) => Promise<Response>;
```

- Loader Function: GET requests
- Action Function: POST | PUT | PATCH | DELETE requests

#### Loader

```
export const loader: LoaderFunction = async ({ params }) => {
  const todo = await getTodo(params.id);

  return new Response(JSON.stringify(todo), {
    headers: { 'content-type': 'application/json' }
  })
};
```

## Loader + json

```
import { json } from 'remix';
export const loader: LoaderFunction = async ({ params }) => {
  const todo = await getTodo(params.id);
  return json(todo);
};
```

```
export const loader: LoaderFunction = async ({ params }) => {
  const todo = await getTodo(params.id);
  return todo;
};
```

```
export const loader: LoaderFunction = async ({ params }) => {
  return getTodo(params.id);
};
```

## Loader + query params

```
import { json } from 'remix';

export const loader: LoaderFunction = async ({ request }) => {
   const url = new URL(request.url);
   const term = url.searchParams.get('term');

   const todos = await searchTodos(term);

   return json(todos);
};
```

## Loader + fetch

```
export const loader: LoaderFunction = async ({ request }) => {
  return fetch('https://my.api.com', {
    headers: request.headers
  });
};
```

#### **Action**

```
import { redirect } from 'remix';

export const action: LoaderFunction = async ({ request, params }) => {
  const body = await request.formData();
  const firstName = body.get('firstName');

  await updateProfile(params.id, { firstName });

  return redirect(`/profile/${id}`);
};
```

## Action + json

```
import { json } from 'remix';
export const action: LoaderFunction = async ({ request }) => {
  const body = await request.json();
  const { firstName } = body;
  const profile = await createProfile({ firstName });
  return json(profile, {
    status: 201,
    headers: { location: `/profile/${profile.id}` }
 });
```

## **Frontend**

## Server Side Rendering

```
import { renderToString } from 'react-dom/server';
function handleRequest(
  request,
  responseStatusCode,
  responseHeaders
  const markup = renderToString(<RemixServer url={request.url} />);
  responseHeaders.set('content-type', 'text/html');
  return new Response('<!DOCTYPE html>' + markup, {
    status: responseStatusCode,
    headers: responseHeaders,
  });
```

## **Client Side Rendering**

```
import { hydrate } from 'react-dom';
hydrate(<RemixBrowser />, document);
```

## **Document**

```
function Document({ children }) {
  const includeScripts = useMatches()
    .some(({ handle }) => handle?.hydrate);
  return (
    <html lang="en">
      <head>
       <Meta />
        <Links />
      </head>
      <body>
        {children}
        <ScrollRestoration />
        {includeScripts ? <Scripts /> : null}
        <LiveReload />
      </body>
    </html>
```

## **Application Root**

## **ErrorBoundary**

```
export function ErrorBoundary({ error }) {
   return <Document>
        <h1>500</h1>
        {error.message}
        </Document>;
}
```

## CatchBoundary

```
export function CatchBoundary() {
  const caught = useCatch();

  return <Document>
        <h1>{caught.status}</h1>
        {caught.statusText}
        </Document>;
}
```

#### Route

```
export default IndexRoute() {
  return <div>Hello World!</div>;
}
```

1 Si export default est omis, la route sera interprétée comme une API route!

#### Route + loader

```
export const loader = () => ({ message: 'Hello World!' });

export default IndexRoute() {
   const data = useLoaderData();

   return <div>{data.message}</div>;
}
```

## Handle

```
export const handle = { hydrate: true };
```

## useMatches

```
const includeScripts = useMatches()
.some(({ handle }) => handle?.hydrate);
```

## **Mutations**

#### **HTML Form**

## **Remix Form**

## **Remix Optimistic Form**

```
function MyForm({ firstName }) {
  const transition = useTransition();
  const disabled = transition.state == 'submitting';
  const optimisticFirstName = transition
    .submission?.formData.get('firstName');
  return <>
    {optimisticFirstName ?? firstName}
    <Form action="/profile" replace>
      <label htmlFor="firstName">First Name</label>
      <input
        id="firstName"
        name="firstName"
        defaultValue={firstName}
      />
      <button disabled={disabled} type="submit">Save</button>
    </Form>
  </>;
```