

getServerSideProps

When exporting a function called `getServerSideProps` (Server-Side Rendering) from a page, Next.js will pre-render this page on each request using the data returned by `getServerSideProps`. This is useful if you want to fetch data that changes often, and have the page update to show the most current data.

TS pages/index.tsx



```
1  import type { InferGetServerSidePropsType, GetServerSideProps } from 'next';
2
3  type Repo = {
4    name: string;
5    stargazers_count: number;
6  };
7
8  export const getServerSideProps: GetServerSideProps<{
9    repo: Repo;
10 }> = async () => {
11   const res = await fetch('https://api.github.com/repos/vercel/next.js');
12   const repo = await res.json();
13   return { props: { repo } };
14 };
15
16 export default function Page({
17   repo,
18 }: InferGetServerSidePropsType<typeof getServerSideProps>) {
19   return repo.stargazers_count;
20 }
```

You can import modules in top-level scope for use in `getServerSideProps`. Imports used will **not be bundled for the client-side**. This means you can write **server-side code directly in `getServerSideProps`**, including fetching data from your database.

Context parameter

The `context` parameter is an object containing the following keys:

Name	Description
<code>params</code>	If this page uses a dynamic route , <code>params</code> contains the route parameters. If the page name is <code>[id].js</code> , then <code>params</code> will look like <code>{ id: ... }</code> .
<code>req</code>	The HTTP IncomingMessage object [↗] , with an additional <code>cookies</code> prop, which is an object with string keys mapping to string values of cookies.
<code>res</code>	The HTTP response object [↗] .
<code>query</code>	An object representing the query string, including dynamic route parameters.
<code>preview</code>	(Deprecated for <code>draftMode</code>) <code>preview</code> is <code>true</code> if the page is in the Preview Mode and <code>false</code> otherwise.
<code>previewData</code>	(Deprecated for <code>draftMode</code>) The preview data set by <code>setPreviewData</code> .
<code>draftMode</code>	<code>draftMode</code> is <code>true</code> if the page is in the Draft Mode and <code>false</code> otherwise.
<code>resolvedUrl</code>	A normalized version of the request <code>URL</code> that strips the <code>_next/data</code> prefix for client transitions and includes original query values.
<code>locale</code>	Contains the active locale (if enabled).
<code>locales</code>	Contains all supported locales (if enabled).
<code>defaultLocale</code>	Contains the configured default locale (if enabled).

getServerSideProps return values

The `getServerSideProps` function should return an object with **any one of the following** properties:

props

The `props` object is a key-value pair, where each value is received by the page component. It should be a [serializable object](#) [↗] so that any props passed, could be serialized with `JSON.stringify` [↗].

```
1 export async function getServerSideProps(context) {
2   return {
3     props: { message: `Next.js is awesome` }, // will be passed to the page component as
4   };
5 }
```

notFound

The `notFound` boolean allows the page to return a `404` status and [404 Page](#). With `notFound: true`, the page will return a `404` even if there was a successfully generated page before. This is meant to support use cases like user-generated content getting removed by its author.

```
1 export async function getServerSideProps(context) {
2   const res = await fetch(`https://.../data`);
3   const data = await res.json();
4
5   if (!data) {
6     return {
7       notFound: true,
8     };
9   }
10
11   return {
12     props: { data }, // will be passed to the page component as props
13   };
14 }
```

redirect

The `redirect` object allows redirecting to internal and external resources. It should match the shape of `{ destination: string, permanent: boolean }`. In some rare cases, you might need to assign a custom status code for older `HTTP` clients to properly redirect. In these cases, you can use the `statusCode` property instead of the `permanent` property, but not both.

```
1 export async function getServerSideProps(context) {
2   const res = await fetch(`https://.../data`);
3   const data = await res.json();
4
5   if (!data) {
6     return {
7       redirect: {
8         destination: '/',
9         permanent: false,
10       },
11     };
12   }
13
14   return {
15     props: {}, // will be passed to the page component as props
16   };
17 }
```

Version History

Version	Changes
v13.4.0	App Router is now stable with simplified data fetching
v10.0.0	<code>locale</code> , <code>locales</code> , <code>defaultLocale</code> , and <code>notFound</code> options added.
v9.3.0	<code>getServerSideProps</code> introduced.