## Module Not Found

Why This Error Occurred A module not found error can occur for many different reasons:

- The module you're trying to import is not installed in your dependencies
- The module you're trying to import is in a different directory
- The module you're trying to import has a different casing
- The module you're trying to import uses Node.js specific modules, for example dns, outside of getStaticProps / getStaticPaths / getServerSideProps

## Possible Ways to Fix It

The module you're trying to import is not installed in your dependencies When importing a module from npm this module has to be installed locally.

For example when importing the swr package:

```
import useSWR from 'swr'
```

The swr module has to be installed using a package manager.

- When using npm: npm install swr
- When using yarn: yarn add swr

The module you're trying to import is in a different directory Make sure that the path you're importing refers to the right directory and file.

The module you're trying to import has a different casing Make sure the casing of the file is correct.

## Example:

```
// components/MyComponent.js
export default function MyComponent() {
   return <h1>Hello</h1>
}

// pages/index.js
// Note how `components/MyComponent` exists but `Mycomponent` without the capital `c` is import MyComponent from '../components/Mycomponent'
```

Incorrect casing will lead to build failures on case-sensitive environments like most Linux-based continuous integration and can cause issues with Fast Refresh.

The module you're trying to import uses Node.js specific modules getStaticProps, getStaticPaths, and getServerSideProps allow for using modules that can only run in the Node.js environment. This allows you to do direct database queries or reading data from Redis to name a few examples.

The tree shaking only runs on top level pages, so it can't be relied on in separate React components.

You can verify the tree shaking on next-code-elimination.vercel.app.

Example of correctly tree shaken code:

```
// lib/redis.js
import Redis from 'ioredis'
const redis = new Redis(process.env.REDIS URL)
export default redis
// pages/index.js
import redis from '../lib/redis'
export async function getStaticProps() {
  const message = await redis.get('message')
 return {
    message,
}
export default function Home({ message }) {
 return <h1>{message}</h1>
Example of code that would break:
// lib/redis.js
import Redis from 'ioredis'
const redis = new Redis(process.env.REDIS_URL)
export default redis
// pages/index.js
// Redis is a Node.js specific library that can't run in the browser
// Trying to use it in code that runs on both Node.js and the browser will result in a modu
// If you run into such an error it's recommended to move the code to `getStaticProps` or `
import redis from '../lib/redis'
import { useEffect, useState } from 'react'
export default function Home() {
```

```
const [message, setMessage] = useState()
 useEffect(() => {
   redis.get('message').then((result) => {
      setMessage(result)
 }, [])
 return <h1>{message}</h1>
Example of code that would break:
// lib/redis.js
import Redis from 'ioredis'
// Modules that hold Node.js-only code can't also export React components
// Tree shaking of getStaticProps/getStaticPaths/getServerSideProps is ran only on page file
const redis = new Redis(process.env.REDIS_URL)
export function MyComponent() {
 return <h1>Hello</h1>
export default redis
// pages/index.js
// In practice you'll want to refactor the `MyComponent` to be a separate file so that tree
import redis, { MyComponent } from '../lib/redis'
export async function getStaticProps() {
  const message = await redis.get('message')
 return {
   message,
}
export default function Home() {
 return <MyComponent />
```