

what's next in nuxt






Daniel Roe

daniel@roe.dev

🦋 @danielroe.dev

📧 @daniel@roe.dev

hello 🖐️

 nuxt.com •  nitro.unjs.io •  page-speed.dev •  regexp.dev
 fontaine.sh •  elk.zone •  firstcommit.is •  react-to-nuxt.com





are you using Nuxt in production?

yes



roe.dev/v/yes

25

only v2



roe.dev/v/nuxt2

4

not yet



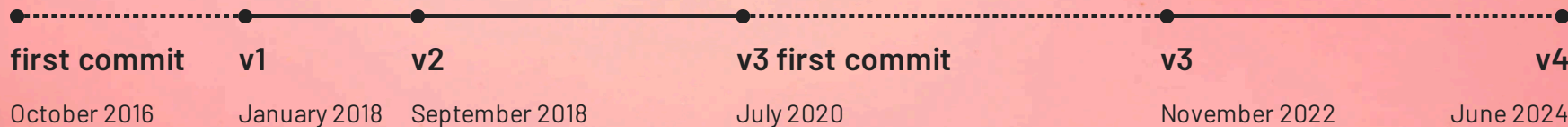
roe.dev/v/no

31



what is Nuxt?

- ✦ a **progressive** framework built on **Vue.js** and **Nitro**
- ✦ **zero-effort** start with great DX
- ✦ **best practices** built-in
- ✦ fully **configurable** & easily **extensible**





55.0 k

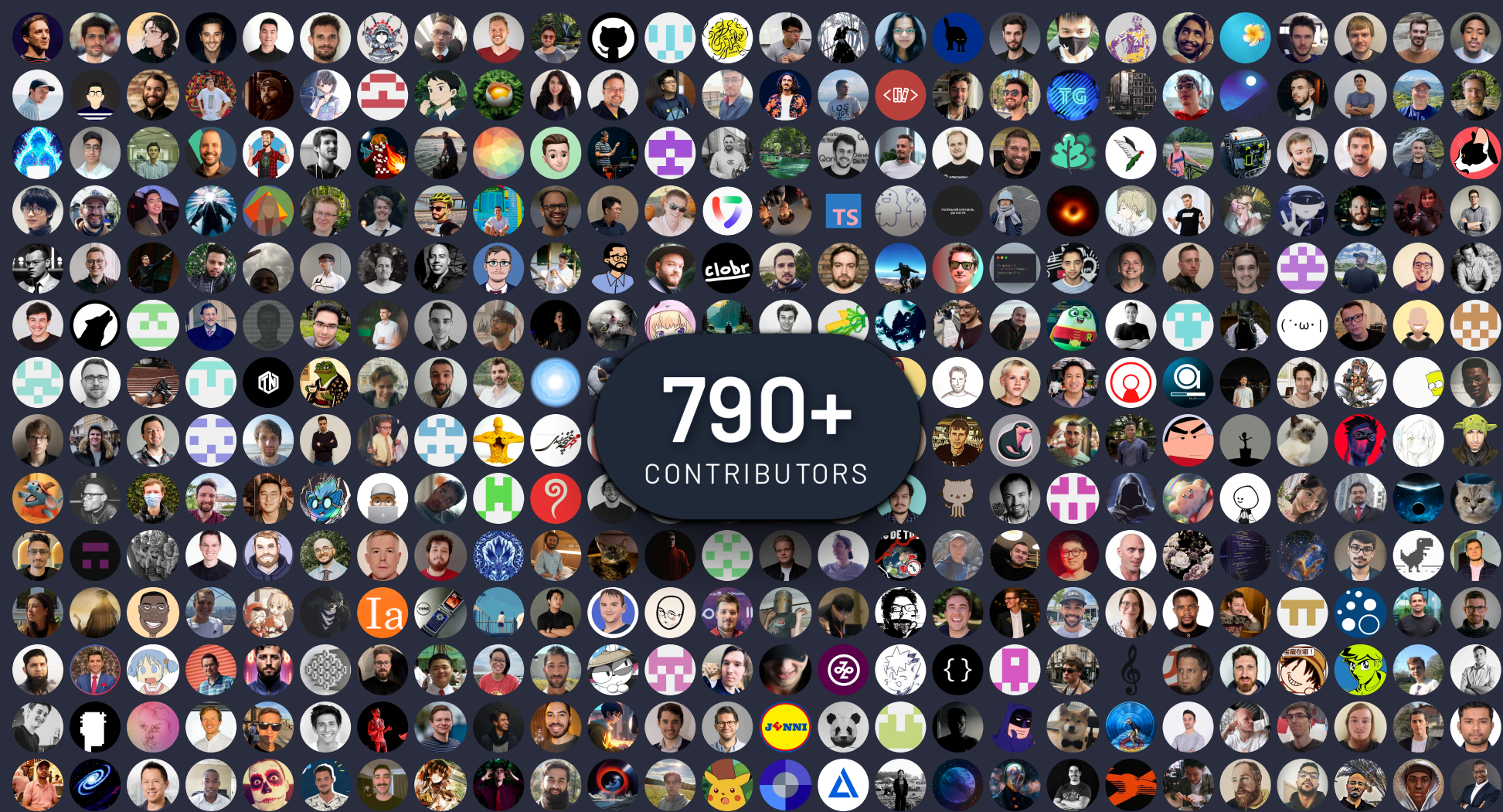
★ STARS

33.2 MILLION

📈 DOWNLOADS

73 %

📊 NUXT 3 VS NUXT 2



nuxt.com/modules

broader ecosystem

250 +
MODULES

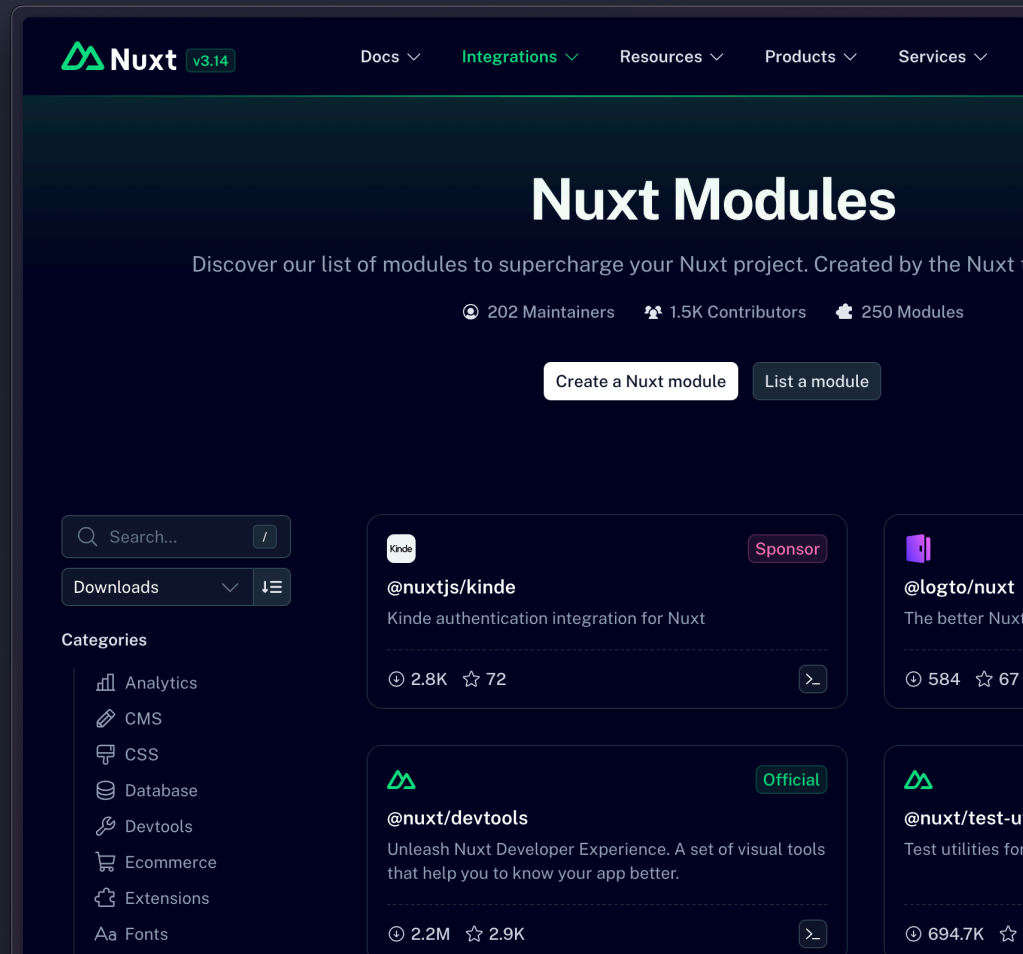
202
MAINTAINERS

1,534
CONTRIBUTORS

20,081,546
DOWNLOADS

186,138
STARS

```
const { stats } =  
  await $fetch('https://api.nuxt.com/modules')
```





roe.dev/feedback

50

- ✦ Most users expressed their positive views towards Nuxt, finding it easier to use and more efficient than other metaframeworks. They appreciate its ease of setup and good development experience.
- ✦ Some users are torn between Nuxt and Next.js, hinting at a recurring comparison between the two frameworks, but most seem to indicate a preference for Nuxt.
- ✦ A lot of users expressed a desire for more cat pictures, indicating either a community inside joke or a playful request for more fun in documentation or events.
- ✦ There is debate surrounding the combination of Nuxt with other systems like Directus or Wordpress, which indicates a potential for growth in Nuxt's capability to integrate with other popular tools.
- ✦ A few users indicated confusion or criticisms; for instance, some are unsure why their team uses Nuxt, and others question if Nuxt is a copy of Next.js.

In conclusion, while there are some minor criticisms or areas of confusion, overall feedback about Nuxt, the frontend meta-framework, is highly positive, and most importantly, users appreciate its ease of use and efficient functioning.

Directus and Nuxt will merge?



what's next in nuxt

- ✦ HYPE
- ✦ **thoughtful** breaking changes
- ✦ opt-in **and out**
- ✦ focus on **migration** experience

what's next in nuxt

✨ new default directory structure

separation of scope: build, server, vue, shared

💪 better types

⚡ more performant

```
app/  
  | components/  
  | composables/  
  | layouts/  
  | middleware/  
  | pages/  
  | plugins/  
  | app.vue  
  └ router.options.ts  
content/  
  
layers/  
i18n/  
modules/  
public/  
server/  
  | api/  
  | middleware/  
  | plugins/  
  └ routes/  
shared/  
nuxt.config.ts
```



what's next in nuxt

 data fetching changes


- ✦ shared prerender data
- ✦ deep reactivity
- ✦ defaults for `data` & `error`

migration

```

export default defineNuxtConfig({
  future: {
    compatibilityVersion: 4,
  },
  srcDir: '.',
  dir: {
    app: 'app'
  },
  experimental: {
    scanPageMeta: 'after-resolve',
    sharedPrerenderData: false,
    compileTemplate: true,
    resetAsyncDataToUndefined: true,
    templateUtils: true,
    relativeWatchPaths: true,
    normalizeComponentNames: false
  },
  defaults: {
    useAsyncData: {
      deep: true
    }
  },
},
unhead: {
  renderSSRHeadOptions: {
    omitLineBreaks: false
  }
}

```


v3.13

[Docs](#)
[Integrations](#)
[Resources](#)
[Products](#)
[Services](#)

[Get Started](#)


[Guide](#)
[API](#)
[Examples](#)
[Community](#)

[Introduction](#)
[Installation](#)
[Configuration](#)
[Views](#)
[Assets](#)
[Styling](#)
[Routing](#)
[SEO and Meta](#)
[Transitions](#)
[Data fetching](#)
[State Management](#)

Testing Nuxt 4

Nuxt 4 is planned to be released **on or before June 14** (though obviously dependent on having enough time after Nitro's major release to be proper for the community, so be aware that this is not an exact date).


Until then, it is possible to test many of Nuxt 4's breaking changes from Nuxt 3.12+.

 Watch a video from Alexander Lichter showing how to opt in to Nuxt 4's breaking changes already.

Opting in to Nuxt 4

First, upgrade Nuxt to the **latest release**.

Then you can set your `compatibilityVersion` to match Nuxt 4 behavior.

 nuxt.config.ts



```

export default defineNuxtConfig({
  future: {

```


migration

 nuxt.com/docs/getting-started/upgrade

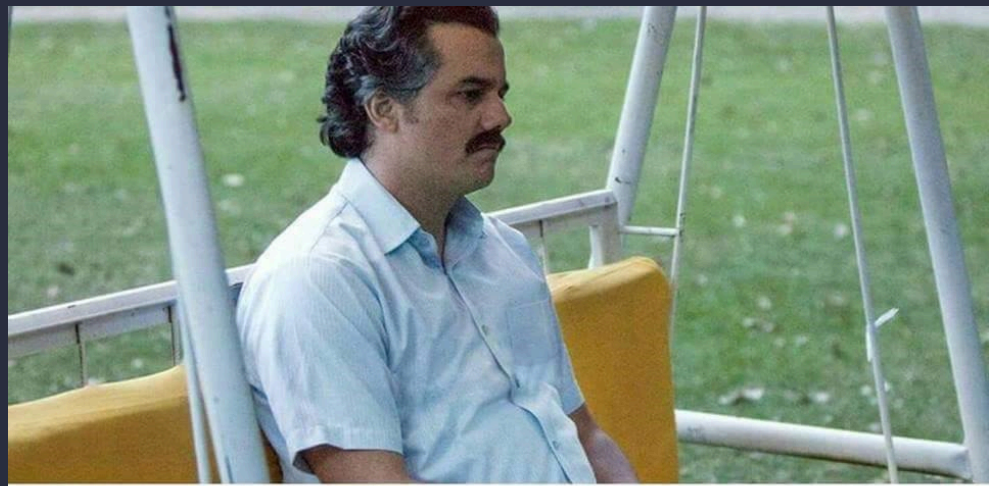
 `npx codemod@latest nuxt/4/migration-recipe`

 [danielroe/roe.dev/pull/1408](https://github.com/danielroe/roe.dev/pull/1408)

start a new nuxt project using v4-compatible template

```
npx nuxi@latest init -t v4-compatible nuxt-app
```

when will nuxt 4 be out?







when will nuxt 4 be out?

unjs releases







- ✦ ⚡ nitro v2.10: structure changes and features: [unjs/nitro/issues/2522](https://github.com/unjs/nitro/issues/2522)
- ✦ 🍟 jiti v2
 - native import/resolution support
 - performance improvements
- ✦ ⚡ h3 v2: [unjs/h3/issues/787](https://github.com/unjs/h3/issues/787)
 - fully decoupled `event.node`

when will nuxt 4 be out?

ecosystem migration

- ✦  migrate ecosystem ecosystem to unjs breaking changes (~1 month)
- ✦  stabilise, e2e test + update docs (~1 week)
- ✦  final v3 nitro release
- ✦  final v4 nuxt release

what's coming next?

- ✦  environment API for vite/nitro
- ✦  reworking of typed fetch
- ✦  multi-app support
- ✦  component cache
- ✦  parallel island rendering
- ✦  service worker layer

chunking async refreshes experimental

```
<script setup lang="ts">
const route = useRoute()

const { data: repo } = await useAsyncData(async () => {
  const repo = await $fetch(`https://api.github.com/repos/${route.params.owner}/${route.params.repo}`)
  return repo
})
</script>

<template>
  <div> {{ repo.description }} </div>
</template>
```


-39 %
TOTAL JS


-66 %
UNUSED JS

rebundling initial load experimental

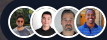
```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="preload" as="fetch" crossorigin="anonymous" href="/_payload.json?c5943ca5-b255-4abc-9e46-6014c3b9fff6">
    <link rel="modulepreload" as="script" crossorigin href="/_nuxt/BKQMxkHa.js">
    <link rel="modulepreload" as="script" crossorigin href="/_nuxt/BJLjm6hm.js">
    <link rel="modulepreload" as="script" crossorigin href="/_nuxt/3z0kgwPW.js">
    <link rel="modulepreload" as="script" crossorigin href="/_nuxt/B-uwqUrw.js">
    <link rel="modulepreload" as="script" crossorigin href="/_nuxt/Dv2xHvpN.js">
    <link rel="modulepreload" as="script" crossorigin href="/_nuxt/Dg43CYwG.js">
    <link rel="modulepreload" as="script" crossorigin href="/_nuxt/DNjtNyfs.js">
    <link rel="modulepreload" as="script" crossorigin href="/_nuxt/W_Ax1ArN.js">
    <link rel="modulepreload" as="script" crossorigin href="/_nuxt/DLjpcXBA.js">
    <link rel="modulepreload" as="script" crossorigin href="/_nuxt/DsNWG3FT.js">
    <title>A truly incredible site</title>
```

new core modules

✦ nuxt/fonts

 DANIEL ROE

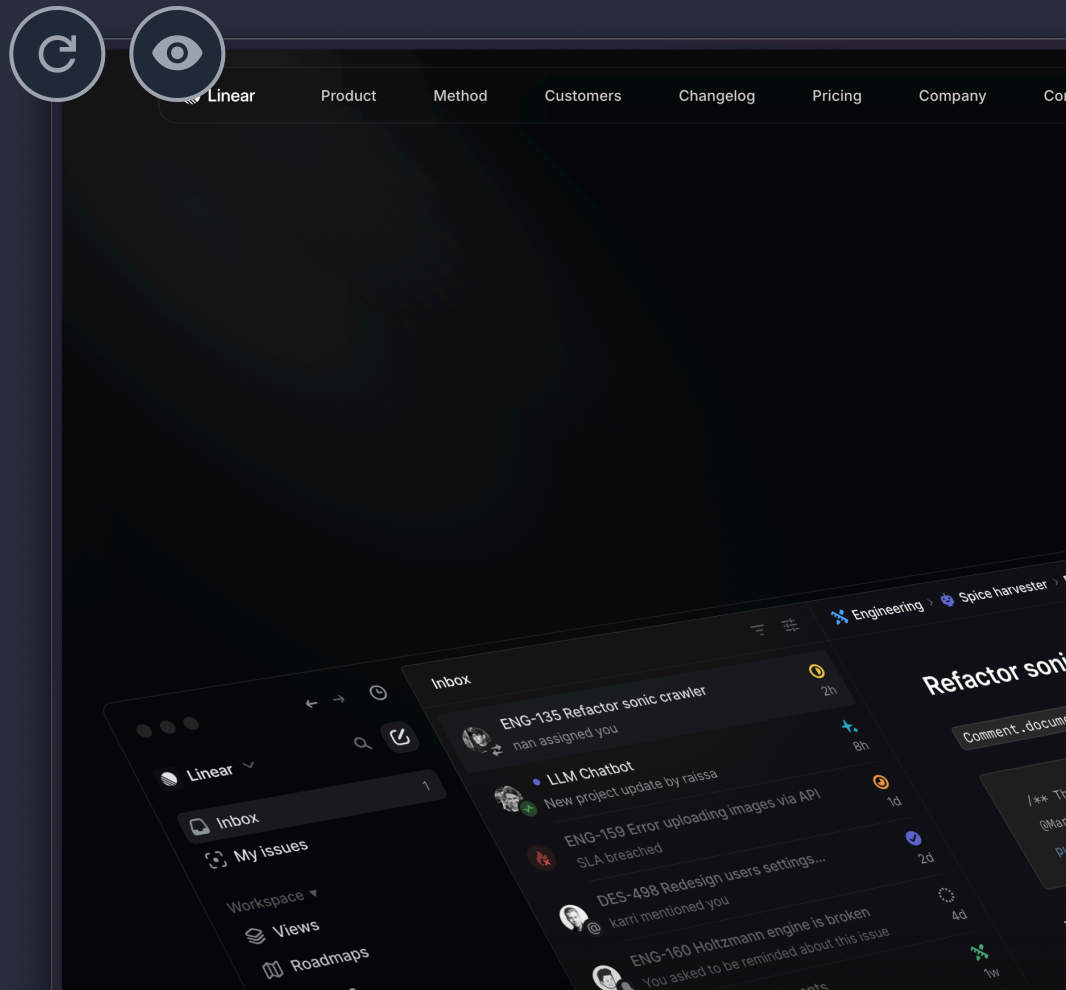
✦ nuxt/scripts



HARLAN-ZW · HUANG-JULIEN · FLASHDESIGNORY · HOUSSEINDJIRDEH

nuxt/fonts

- ✦ font configuration doesn't respond to *usage*
- ✦ third-party origins + preconnects
- ✦ font waterfalls
- ✦ contribution to layout shift



nuxt/fonts

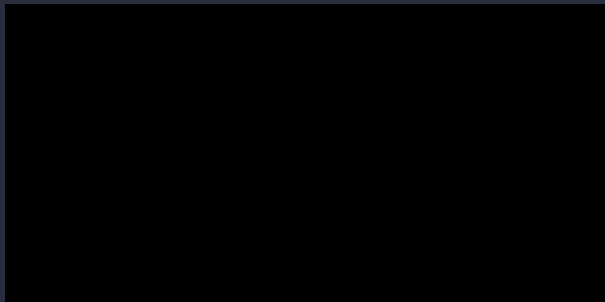
- ✦ [unjs/unifont](#)
- ✦ [unjs/fontaine](#)

```
<template>
  <h1> Hello World </h1>
</template>
```

```
<style scoped>
h1 {
  font-family: 'Oswald', sans-serif;
}
</style>
```

nuxt/scripts

built-in facade components



nuxt/scripts

- ✦ cookie consent
- ✦ defer loading until interactive
- ✦ preconnect hints
- ✦ script preloading

You may not need Google Tag Manager with Nuxt Scripts. GTM is 82kb and will slow down your site. Nuxt Scripts provides many features you can easily implement within your Nuxt app.

scripts.nuxt.com


nuxt/scripts


bundling

```
const { load } = useScript('https://example.com/script.js', {  
  trigger: 'manual'  
})
```

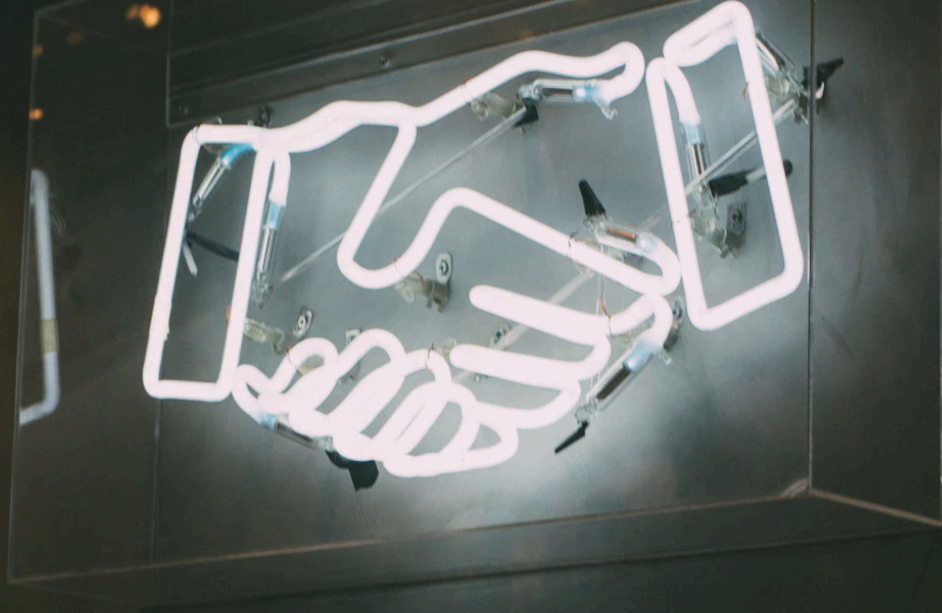
A scenic landscape at sunset. A winding asphalt road curves through a hilly area. A person in a blue shirt and dark shorts is running away from the camera on the road. To the left is a steep, grassy hillside with some rocky patches. In the distance, a town is visible under the warm glow of the setting sun. The sky is filled with soft, wispy clouds, and a few birds are flying. The overall mood is peaceful and inspiring.

coming soon ...

✦ nuxt/a11y  ANTFU · DANIELROE

✦ nuxt/auth-utils  ATINUX

✦ nuxt/hints  BAROSHEM · DANIELROE



friendly collaboration

'centre-bounded'





ecosystem

ROUTING

- ✦ vue-router
- ✦ universal routing

DEPLOY

- ✦ alwaysdata
- ✦ aws lambda
- ✦ aws amplify
- ✦ azure
- ✦ cleavr
- ✦ cloudflare
- ✦ deno deploy
- ✦ digitalocean
- ✦ edgio
- ✦ firebase
- ✦ flightcontrol
- ✦ github pages
- ✦ heroku
- ✦ iis

- ✦ koyeb

- ✦ netlify
- ✦ platform.sh
- ✦ render.com
- ✦ stormkit
- ✦ vercel
- ✦ zeabur

TESTING

- ✦ jest
- ✦ vitest
- ✦ playwright
- ✦ cypress
- ✦ cucumber

STORIES

- ✦ storybook
- ✦ histoire

KV AND CACHE

- ✦ azure
- ✦ browser
- ✦ capa
- ✦ pref
- ✦ cloud
- ✦ filesystem
- ✦ github
- ✦ http
- ✦ lru cache
- ✦ memory
- ✦ mongodb
- ✦ netlify blobs
- ✦ overlay
- ✦ planetscale

- ✦ redis

- ✦ vercel kv

DATABASES

- ✦ bun sqlite
- ✦ cloudflare d1
- ✦ postgresql
- ✦ sqlite
- ✦ turso
- ✦ vercel

IMAGES

- ✦ aliyun
- ✦ aws amplify
- ✦ bunny
- ✦ caisy
- ✦ cloudflare
- ✦ cloudimage
- ✦ cloudinary
- ✦ contentful
- ✦ directus
- ✦ edgio
- ✦ fastly
- ✦ glide
- ✦ gumlet
- ✦ hygraph
- ✦ imageengine
- ✦ imagekit
- ✦ imgix
- ✦ ipx

- ✦ netlify

- ✦ prepr
- ✦ prismic
- ✦ sanity
- ✦ sirv
- ✦ storyblok
- ✦ strapi
- ✦ twicpics
- ✦ unsplash
- ✦ uploadcare
- ✦ vercel
- ✦ weserv


FONTS

- ✦ google
- ✦ adobe
- ✦ bunny
- ✦ fontshare
- ✦ fontsource
- ✦ local

90+
PROVIDERS

a welcoming community

- ✦ new user portal - nuxt.com + nuxters.nuxt.com
- ✦ [Discord](#) and GitHub for help and contribution
- ✦ ... an offer 🙏
roe.dev/chat

 Nuxters


Are you a Nuxter?

Discover your contributions on [nuxt](#) and [nuxt modules](#) organisations and unlock the [nuxter](#) role on [Nuxt Discord server](#).

Unlock it by having either:


- ✓ 1 pull request merged
- ✓ 1 helpful issue (3+ reactions)
- ✓ 1 helpful comment (3+ reactions)

Note that your details are stored in a secured cookie and only used to grant you roles on Discord.



danielroe

18,707 pts ⓘ

 Nuxters

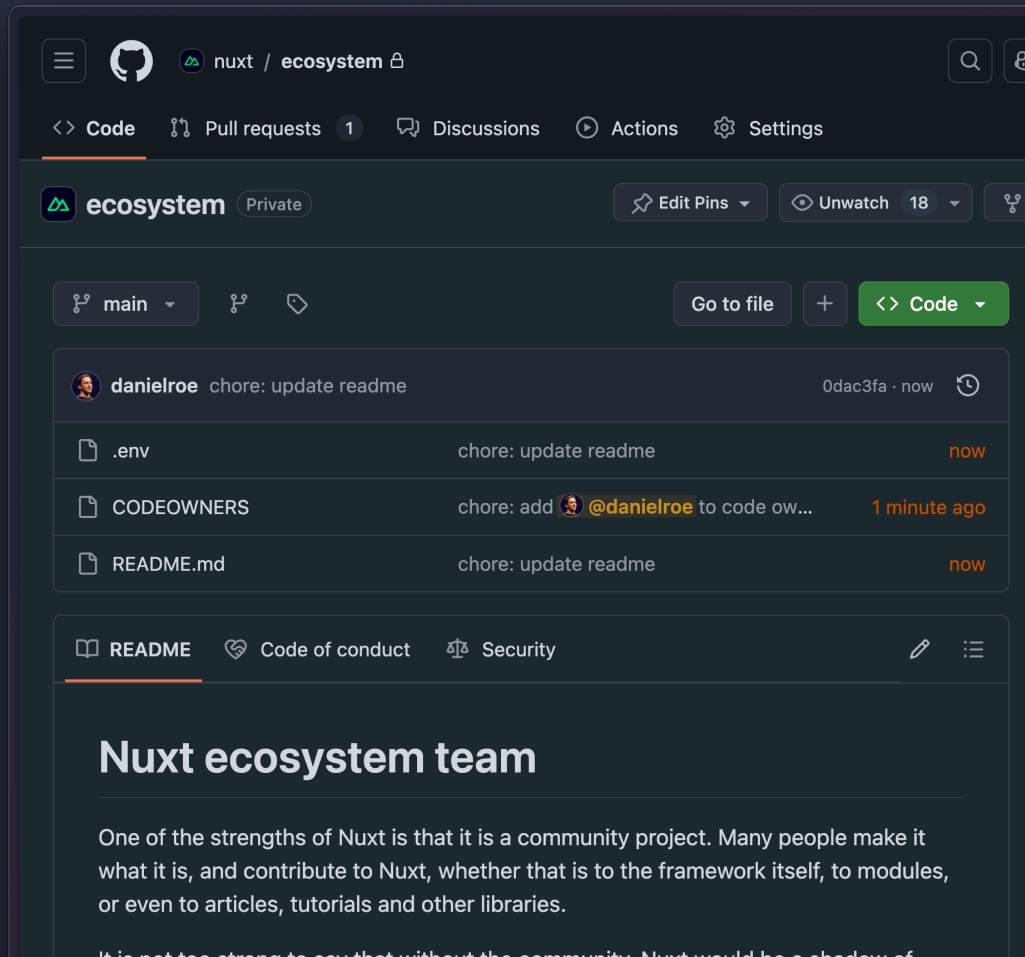
Ready to Join us?

Become a Nuxter and help shape the future of Nuxt. Contribute, collaborate and community today!

the ecosystem team

✦ 👤 who

- ▶ key contributor to the framework
- ▶ key library author
- ▶ ambassador or content creator
- ▶ `nuxt-modules/` maintainer

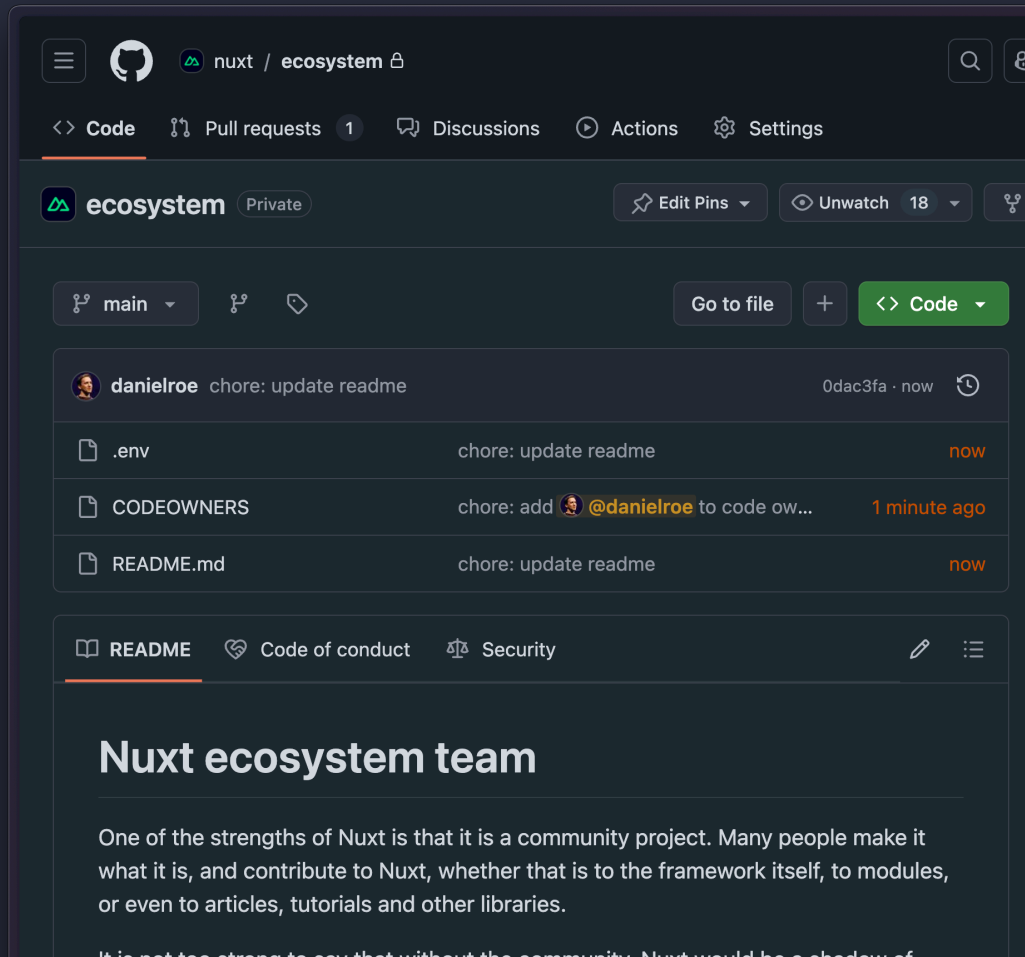


the ecosystem team

✦ 🧑 who

✦ ? what

- ▶ weekly meetings
- ▶ opportunity to dive deeper

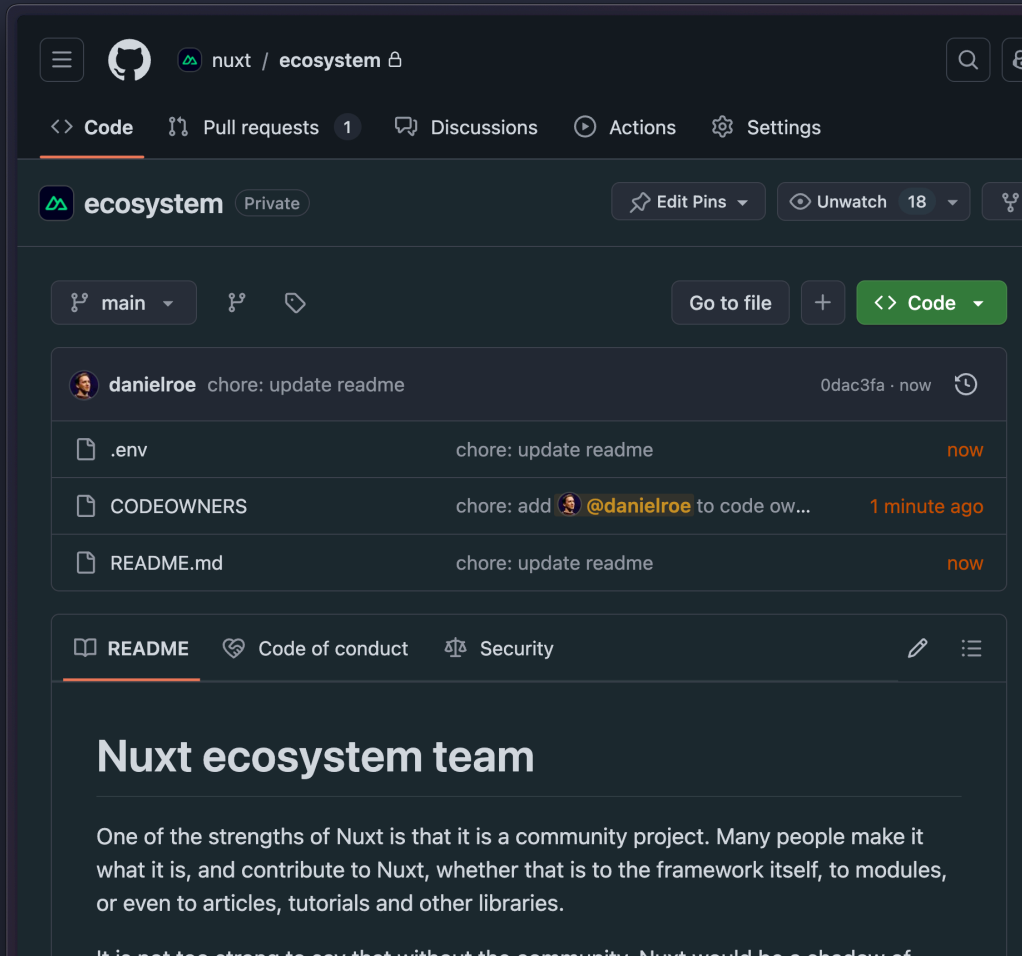


the ecosystem team

✦ 👤 who

✦ ❓ what

✦ 🛠️ next steps



The screenshot shows the GitHub repository for the Nuxt ecosystem. The repository is named "ecosystem" and is owned by "nuxt". It is a private repository. The page shows the "main" branch selected. There are three recent commits by "danielroe":

File	Commit Message	Time
.env	chore: update readme	now
CODEOWNERS	chore: add @danielroe to code ow...	1 minute ago
README.md	chore: update readme	now

The repository has a README file selected, which is titled "Nuxt ecosystem team". The README content is as follows:

One of the strengths of Nuxt is that it is a community project. Many people make it what it is, and contribute to Nuxt, whether that is to the framework itself, to modules, or even to articles, tutorials and other libraries.

It is not too strong to say that without the community, Nuxt would be a shadow of

Daniel Roe


daniel@roe.dev

🦋 @danielroe.dev

📧 @daniel@roe.dev



... thank you from the whole Nuxt team ❤️

✦ core  PIO · ATINUX · ANTFU · HARLAN-ZW · HUANG-JULIEN · LIHBR · MANNIL · DANIELROE

✦ ecosystem 

