Nuxt Vue web framework

START HERE

npm create nuxt *<dir>*
Scaffold a project

npx nuxt dev
Start the dev server

npx nuxt add-template page *<name>*
Create a page

npx nuxt module add *<module>*
Install a module

npx nuxt typecheck
Check types

npx nuxt build
Production build

npx nuxt generate
Static site output

npx nuxt preview
Try the build locally

nuxt dev HMR server → **nuxt build** → **.output** Nitro server bundle → **node** → **Run** SSR on Node or edge

CONCEPTS

Files in app/pages, app/components and app/composables are picked up and auto-imported: no import lines needed.

nuxt generate prerenders every route to plain HTML in .output/public for any static host.

PROJECT

npm create nuxt *<dir>*
Scaffold a new project

npx nuxt dev
Start the dev server with HMR
Port also comes from PORT or NUXT_PORT.

npx nuxt build
Production build into .output
Output is a Nitro server; run it with node .output/server/index.mjs.

npx nuxt generate
Prerender to static HTML
Same as build --prerender.

npx nuxt preview
Serve the production build locally
Run build first.

npx nuxt prepare
Generate .nuxt and types
Handy as a postinstall script or in CI before linting.

PROJECT (cont.)

npx nuxt typecheck
Type-check the whole app
Needs vue-tsc or Golar; offers to install one.

npx nuxt info
Print versions and modules
Paste the output into bug reports; --json for scripts.

npx nuxt cleanup
Delete .nuxt, .output and caches
First thing to try when types or HMR act strange.

npx nuxt upgrade
Upgrade Nuxt and dependencies

npx nuxt *<cmd>* **--logLevel verbose**
More build output

DEV SERVER

npx nuxt dev -p *<port>*
Listen on another port
Add --strictPort to fail instead of picking a free one.

npx nuxt dev -o
Open the browser on start

npx nuxt dev -h *<host>*
Bind to a host or IP

npx nuxt dev --public
Listen on all interfaces
Lets phones and other machines on the LAN reach it.

DEV SERVER (cont.)

npx nuxt dev --https
Serve over local HTTPS
Uses a generated, locally trusted certificate.

npx nuxt dev --dotenv *<file>*
Load an extra .env file
Repeatable; later files win.

BUILD & DEPLOY

npx nuxt build --prerender
Build and prerender static routes

npx nuxt build --preset *<name>*
Choose a deploy target
E.g. node-server, vercel, netlify, cloudflare-pages; NITRO_PRESET also works.

npx nuxt analyze
Inspect the bundle size
Experimental; serves a report unless --no-serve or CI is set.

node .output/server/index.mjs
Run the built server
PORT and HOST env vars control where it listens.

SCAFFOLDING

npx nuxt add-template page *<name>*
New page in app/pages

SCAFFOLDING (cont.)

npx nuxt add-template component *<Name>*
New component in app/components

npx nuxt add-template composable *<name>*
New composable in app/composables

npx nuxt add-template layout *<name>*
New layout in app/layouts

npx nuxt add-template middleware *<name>*
New route middleware
Add --global to run it on every route.

npx nuxt add-template plugin *<name>*
New plugin in app/plugins
--client or --server adds a mode suffix.

npx nuxt add-template api *<name>*
New API handler in server/api
Add --get or --post to restrict the method.

MODULES

npx nuxt module add *<module>*
Install and register a module
Edits package.json and the modules list in nuxt.config.

npx nuxt module search *<query>*
Find modules by keyword

MODULES (cont.)

npx nuxt module remove *<module>*
Uninstall and unregister a module

DIRECTORIES

Where things go

Path	Holds
`app/pages/`	file-based routes (about.vue, [id].vue)
`app/components/`	auto-imported components
`app/composables/`	auto-imported use* functions
`app/layouts/`	page wrappers, used with <NuxtLayout>
`app/middleware/`	route guards
`app/plugins/`	code that runs when the app starts
`app/utils/`	auto-imported helpers
`server/api/`	handlers served at /api/*
`server/routes/`	handlers served at their path
`server/middleware/`	run on every server request
`public/`	static files served from /
`shared/`	code usable by app and server

DIRECTORIES (cont.)

app/app.vue is the root component; add <NuxtPage /> there once you have a pages/ folder.

A file in server/api/hello.get.ts answers GET /api/hello only; the .get/.post suffix picks the method.

CONFIG

nuxt.config.ts: modules
List of extensions, loaded in order

nuxt.config.ts: runtimeConfig
Env-backed settings
Keys outside public stay server-only; override with NUXT_<KEY> env vars.

nuxt.config.ts: css
Global stylesheets

nuxt.config.ts: app
baseURL, head tags, transitions

nuxt.config.ts: ssr
Turn server rendering on or off
ssr: false gives a client-only SPA.

nuxt.config.ts: routeRules
Per-route caching and rendering
Mix prerender, swr, redirect and ssr: false per path.

nuxt.config.ts: devtools
Enable Nuxt DevTools