Nuxt Vue web framework

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

npx nuxt build
Production build into .output

npx nuxt generate
Prerender to static HTML

npx nuxt preview
Serve the production build locally

npx nuxt prepare
Generate .nuxt and types

npx nuxt typecheck
Type-check the whole app

npx nuxt info
Print versions and modules

PROJECT (cont.)

npx nuxt cleanup
Delete .nuxt, .output and caches

npx nuxt upgrade
Upgrade Nuxt and dependencies

DEV SERVER

npx nuxt dev -p *<port>*
Listen on another port

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

npx nuxt dev --https
Serve over local HTTPS

npx nuxt dev --dotenv *<file>*
Load an extra .env file

BUILD & DEPLOY

npx nuxt build --prerender
Build and prerender static routes

npx nuxt build --preset *<name>*
Choose a deploy target

BUILD & DEPLOY (cont.)

npx nuxt analyze
Inspect the bundle size

node .output/server/index.mjs
Run the built server

SCAFFOLDING

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

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 api *<name>*
New API handler in server/api

MODULES

npx nuxt module add *<module>*
Install and register 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

nuxt.config.ts: css
Global stylesheets

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

nuxt.config.ts: ssr
Turn server rendering on or off

nuxt.config.ts: routeRules
Per-route caching and rendering

nuxt.config.ts: devtools
Enable Nuxt DevTools