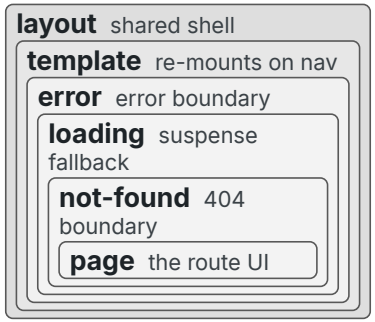
Next.js React web framework

CONCEPTS

Folders under app/ are URL segments; a route goes public only once it has a page or route file.



Nesting order of special files in a segment

npm run forwards flags only after --, e.g. npm run dev -- -p 4000. pnpm, yarn and bun do not need it.

CREATE AN APP

`npx create-next-app@latest <name>`
Create a new project

`create-next-app --yes`
Reuse saved prefs or defaults, no prompts

`create-next-app --js`
JavaScript instead of TypeScript

`create-next-app --src-dir`
Put code in src/

CREATE AN APP (cont.)

`create-next-app --no-tailwind`
Skip Tailwind CSS

`create-next-app --use-pnpm`
Pick the package manager (npm, yarn, bun too)

`create-next-app --example <name>`
Start from an official example

DEV, BUILD, START

`next dev`
Dev server with hot reload

`next dev -p <port>`
Set the port (or PORT env var)

`next dev -H <host>`
Bind a hostname (default 0.0.0.0)

`next dev --webpack`
Use Webpack instead of Turbopack

`next dev --experimental-https`
HTTPS with a self-signed cert

`next build`
Optimized production build

`next build --debug-prerender`
Readable prerender errors, keeps going

DEV, BUILD, START (cont.)

`next start`
Serve the production build

`next start -p <port>`
Port for the production server

TOOLS

`next --help`
List commands and options

`next --version`
Print the Next.js version

`next info`
Print system and package versions

`next typegen`
Generate route types without a build

`next typegen && tsc --noEmit`
Type-check routes in CI

`next upgrade`
Upgrade Next.js and its codemods

`next analyze`
Explore bundle size in the browser

`next telemetry --disable`
Opt out of telemetry

There is no next lint here: run your linter (ESLint or Biome) via its own script.

APP ROUTER FILES

`app/layout.tsx`
Shared shell; root one needs <html> and <body>

`app/page.tsx`
UI that makes a route public

`app/loading.tsx`
Fallback shown while a segment streams

`app/error.tsx`
Error boundary; must be a client component

`app/not-found.tsx`
UI for notFound() and unmatched URLs

`app/global-error.tsx`
Catches errors in the root layout

`app/template.tsx`
Like layout but remounts on navigation

`app/api/<name>/route.ts`
Route handler (GET, POST, ...)

`proxy.ts`
Runs before requests; successor of middleware

`next.config.ts`
Framework config (.js and .mjs also work)

`public/`
Static files served from /

ROUTE FOLDERS

`app/blog/page.tsx`
Serves /blog

`app/blog/[slug]/page.tsx`
Dynamic segment

`app/shop/[...slug]/page.tsx`
Catch-all segment

`app/docs/[[...slug]]/page.tsx`
Optional catch-all, also matches /docs

`app/(marketing)/page.tsx`
Route group: name not in the URL

`app/blog/_lib/`
Private folder, never routed

ENVIRONMENT

`.env`
Defaults for every environment

`.env.local`
Local secrets; keep out of git

`NEXT_PUBLIC_<NAME>=value`
Inlined into browser code at build time

`process.env.<NAME>`
Read a variable on the server

Variables without the NEXT_PUBLIC_ prefix stay server-side.