Astro Web framework CLI

CONCEPTS

Install Astro per project and run it with npx astro <cmd> or npm scripts; it is not meant to be installed globally.

src/pages .astro, .md routes
↓ astro dev
Dev server HMR, port 4321
↓ astro build
dist/ static output
↓ astro preview
Local preview check before deploy

Pages are static HTML by default; add an adapter and output or per-page prerender settings for on-demand rendering.

Config lives in astro.config.mjs; CLI flags like --site, --base, --outDir override it for one run.

PROJECT

npm create astro@latest
Scaffold a project with the wizard

npm create astro@latest -- --template *<name>*
Start from an official template

npm create astro@latest -- --add *<integration>*
Scaffold and add an integration

npm run dev
Run the dev script from package.json

npx astro *<command>*
Run the local CLI directly

astro info
Print environment details

astro --version
Print the Astro version

astro --help
List commands and flags

DEVELOP

astro dev
Start the dev server (HMR)

astro dev --port *<n>*
Use another port (default 4321)

DEVELOP (cont.)

astro dev --host
Listen on all network addresses

astro dev --open
Open the browser on start

astro dev --force
Clear content layer cache, full rebuild

s / o / q
Dev hotkeys: restart / open / quit

BUILD AND PREVIEW

astro build
Build the site into dist/

astro build --outDir *<path>*
Write output elsewhere

astro build --site *<url>*
Override the site URL

astro build --base *<path>*
Override the base path

astro preview
Serve dist/ locally

astro preview --port *<n>*
Preview on another port

astro preview --host
Preview on the network

CHECK AND SYNC

astro check
Type-check .astro and TS files

astro check --watch
Re-check on every change

astro sync
Generate .astro/ types and content types

INTEGRATIONS

astro add *<name>*
Install and wire up an integration

astro add react tailwind
Add several integrations at once

astro add node
Add an SSR adapter (also vercel, netlify, cloudflare)

astro add mdx
Add MDX page and content support

INTEGRATIONS (cont.)

astro add sitemap
Generate sitemap files on build

integrations: [react()]
Config key listing active integrations

CONFIGURATION

--config *<path>*
Use another config file

--root *<path>*
Set the project root

--verbose
Verbose logging

site: 'https://example.com'
Final URL for sitemap and canonical links

base: '/docs'
Deploy under a subpath

output: 'static' / 'server'
Prerender by default or render on demand

server: { port: 3000, host: true }
Dev and preview port and host

redirects: { '/old': '/new' }
Static redirects

vite: { }
Pass options through to Vite

RECIPES

Config with integration and site

```
// astro.config.mjs
import { defineConfig } from
'astro/config';
import react from '@astrojs/
react';

export default defineConfig({
  site: 'https://example.com',
  integrations: [react()],
});
```

Test on a phone in the LAN

```
astro dev --host --port 3000
# open http://<your-ip>:3000 on
the phone
```

CI pipeline

```
npm ci
astro check
astro build
```