Astro Web framework CLI

START HERE

npm create astro@latest
New project

astro add *<name>*
Add integration

astro dev
Dev server

astro check
Type-check

astro build
Build to dist/

astro sync
Generate types

astro preview
Serve the build

astro info
Bug-report info

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

CONCEPTS

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

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
Also accepts <user>/<repo>, optionally with #<branch>.

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 docs
Open the docs in a browser

astro info
Print environment details

astro info --copy
Copy details to clipboard, no prompt

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)

astro dev --host
Listen on all network addresses

astro dev --host *<address>*
Listen on one address

astro dev --open
Open the browser on start

DEVELOP (cont.)

astro dev --open *<pathname>*
Open a specific page

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

astro dev --allowed-hosts *<hosts>*
Allow extra hostnames, or true for any

astro dev --background
Run as a detached process

astro dev status
Show the background server state

astro dev logs --follow
Tail background server logs

astro dev stop
Stop the background server

astro dev --ignore-lock
Start a second server anyway

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

BUILD AND PREVIEW

astro build
Build the site into dist/

astro build --timings
Show build time per phase

astro build --devOutput
Dev-style output for debugging

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

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

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

astro build --mode *<name>*
Set the project mode

astro preview
Serve dist/ locally

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

astro preview --host
Preview on the network

astro preview --background
Preview as a detached process

CHECK AND SYNC

astro check
Type-check .astro and TS files
Exits with code 1 on errors, so it works as a CI step.

CHECK AND SYNC (cont.)

astro check --watch
Re-check on every change

astro check --root *<path>*
Check another project directory

astro check --tsconfig *<path>*
Use a specific tsconfig

astro check --minimumFailingSeverity *<level>*
Fail on error, warning or hint

astro check --minimumSeverity *<level>*
Lowest severity to report

astro check --noSync
Skip the type sync step

astro sync
Generate .astro/ types and content types
dev, build and check run this already; run it by hand after editing the config in an editor.

INTEGRATIONS

astro add *<name>*
Install and wire up an integration
Edits astro.config.mjs and package.json; review the diff.

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

astro add sitemap
Generate sitemap files on build

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

adapter: node({ mode: 'standalone' })
Config key for the hosting adapter

CONFIGURATION

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

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

--verbose
Verbose logging

CONFIGURATION (cont.)

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

outDir: './dist'
Build output directory

trailingSlash: 'always' / 'never'
URL trailing-slash rule

build: { format: 'file' }
about.html instead of about/index.html

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

vite: { }
Pass options through to Vite

devToolbar: { enabled: false }
Hide the dev toolbar

astro preferences list
Show per-project preferences

astro preferences disable devToolbar
Turn the dev toolbar off

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
```

Preview a build under a subpath

```
astro build --base /docs --site https://example.com
astro preview
```