Angular CLI

Angular workspace tool

angular.json projects, targets → `ng <command>` → **Builder** build, serve, test → runs → **dist/** output or dev server

CONCEPTS

Run ng from anywhere inside a workspace; it finds angular.json upwards. ng new is the only command that works outside one.

Every command is a target in angular.json: ng run <project>:<target> is the generic form behind them.

WORKSPACE

ng new *<name>*
Create a new workspace and app

ng new *<name>* **--routing --style=scss**
Create with routing and SCSS

ng version
Show CLI, Angular and package versions

ng add *<package>*
Install a package and run its setup

ng new *<name>* **--skip-install --skip-git**
Create without install or git init

WORKSPACE (cont.)

ng new *<name>* **--package-manager=pnpm**
Pick the package manager

ng new *<name>* **--ssr**
Create with server-side rendering

SERVE AND BUILD

ng serve
Start the dev server (port 4200)

ng serve -o
Start and open the browser

ng serve --port *<n>*
Listen on another port

ng build
Build the app into dist/

ng build -c production
Build with a named configuration

ng serve -c *<config>*
Serve using a named configuration

ng serve --host 0.0.0.0
Listen on all interfaces

ng serve --proxy-config *<file>*
Proxy API calls to a backend

ng serve --ssl
Serve over HTTPS

SERVE AND BUILD (cont.)

ng build --watch
Rebuild on file changes

ng build --base-href *<path>*
Set the base URL for deployment

ng build --output-path *<dir>*
Write output elsewhere

GENERATE

ng generate component *<name>*
Create a component

ng generate service *<name>*
Create a service

ng generate directive *<name>*
Create a directive

ng generate pipe *<name>*
Create a pipe

ng generate guard *<name>*
Create a route guard

ng generate interface *<name>*
Create an interface

ng generate component *<path/name>*
Create inside a subfolder

GENERATE (cont.)

ng generate component *<name>* **--dry-run**
Preview files, write nothing

ng generate component *<name>* **--skip-tests**
Skip the .spec.ts file

ng generate component *<name>* **--inline-template --inline-style**
Single-file component

ng generate interceptor *<name>*
Create an HTTP interceptor

TEST AND LINT

ng test
Run unit tests

ng test --no-watch
Run once and exit

ng test --coverage
Collect a coverage report

ng test --filter *<regex>*
Run tests whose name matches

ng test --browsers *<name>*
Run in a real browser

ng test --include *<glob>*
Limit to matching spec files

ng test --runner karma
Use Karma instead of Vitest

TEST AND LINT (cont.)

ng lint
Run the configured linter

ng add angular-eslint
Set up ESLint for lint

ng e2e
Build, serve and run e2e tests

MAINTAIN

ng update
List packages that can be updated

ng update @angular/core @angular/cli
Update Angular and run migrations

ng update --create-commits
Commit each update and migration

ng config *<path>*
Read a value from angular.json

ng config *<path>* *<value>*
Set a value in angular.json

ng cache clean
Delete the build cache

ng run *<project>*:*<target>*
Run any target from angular.json