

# Angular CLI - Command Cheat Sheet

## Angular CLI (Command Line Interface) - Quick Reference

### Purpose:

The Angular CLI is a command-line tool that helps you create, build, serve, test, and maintain Angular applications efficiently.

### Common Commands:

#### 1. Create a new Angular project

```
ng new my-app
```

#### 2. Serve (run) the application

```
ng serve
```

Shortcut: `ng s`

Opens <http://localhost:4200>

#### 3. Build the application for deployment

```
ng build
```

```
ng build --configuration production
```

#### 4. Generate new Angular features

```
ng generate component my-component
```

```
ng generate service my-service
```

```
ng generate module my-module
```

Shortcuts:

```
ng g c my-component
```

```
ng g s my-service
```

#### 5. Run unit tests

ng test

6. Run end-to-end (E2E) tests

ng e2e

7. Add a new feature or library

ng add @angular/material

8. Update Angular and dependencies

ng update @angular/cli @angular/core

9. Lint project (check code quality)

ng lint (Replaced by ESLint in newer versions)

10. Display project environment info

ng version

11. Run build/watch continuously

ng build --watch --configuration development

Aliases:

ng s => ng serve

ng b => ng build

ng g => ng generate

ng t => ng test

Behind the Scenes:

- Uses Webpack for bundling.
- Uses TypeScript compiler for transpiling.
- Reads build settings from angular.json.

Installation:

npm install -g @angular/cli

Check version:

ng version

Example workflow:

ng new my-app

cd my-app

ng serve

ng g c login

ng build --configuration production

Interview/Important Questions:

1. What is Angular CLI and why is it used?
2. What is the difference between ng build and ng serve?
3. What does ng generate component do?
4. How to add Angular Material using CLI?
5. What file does Angular CLI use for build configuration?
6. How to update Angular using CLI?
7. What happens when you run ng serve?
8. How to check CLI version?