Tooling Features

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Tooling

- Updating Angular
- Workspaces with multiple projects
- Generating Angular Libraries
- Adding Libraries to Angular
- Angular Console

Updating Angular

Keep your project

current with important updates

should be easy

ng update

ng update

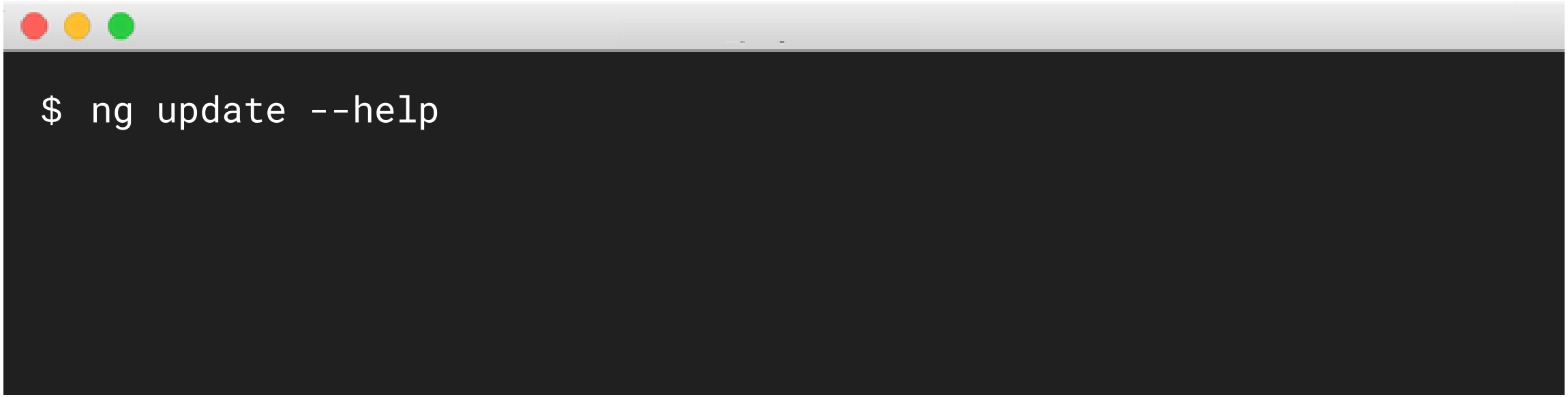
Adopt current versions of Angular

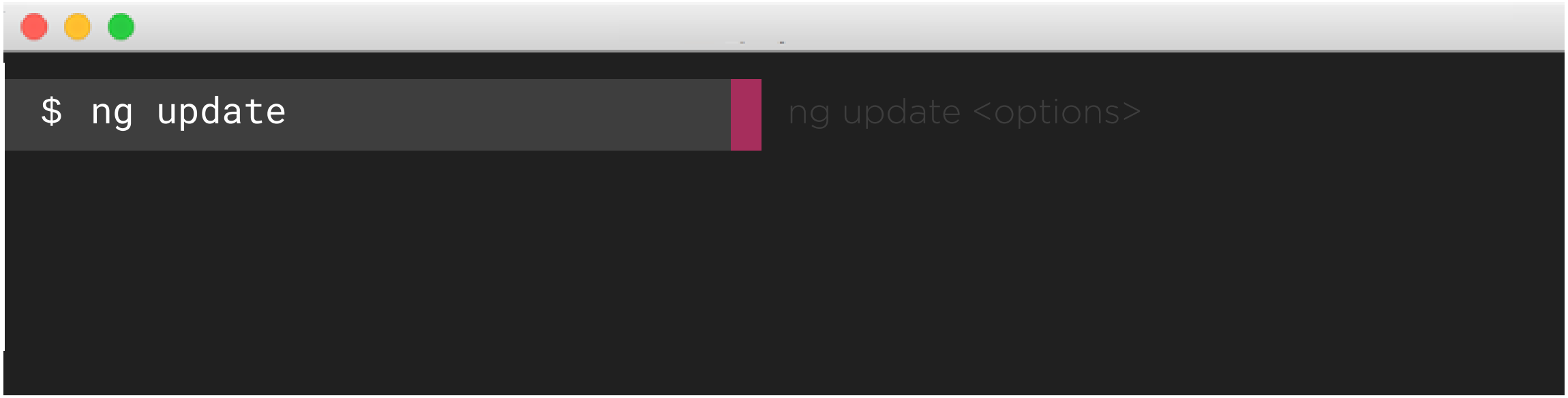
Update 3rd party libraries with schematics

Transform your project

Getting Help

Add the --help or -h flag





Update Your Angular App

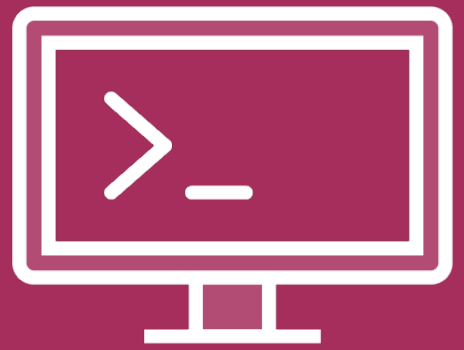
List the changes with ng update

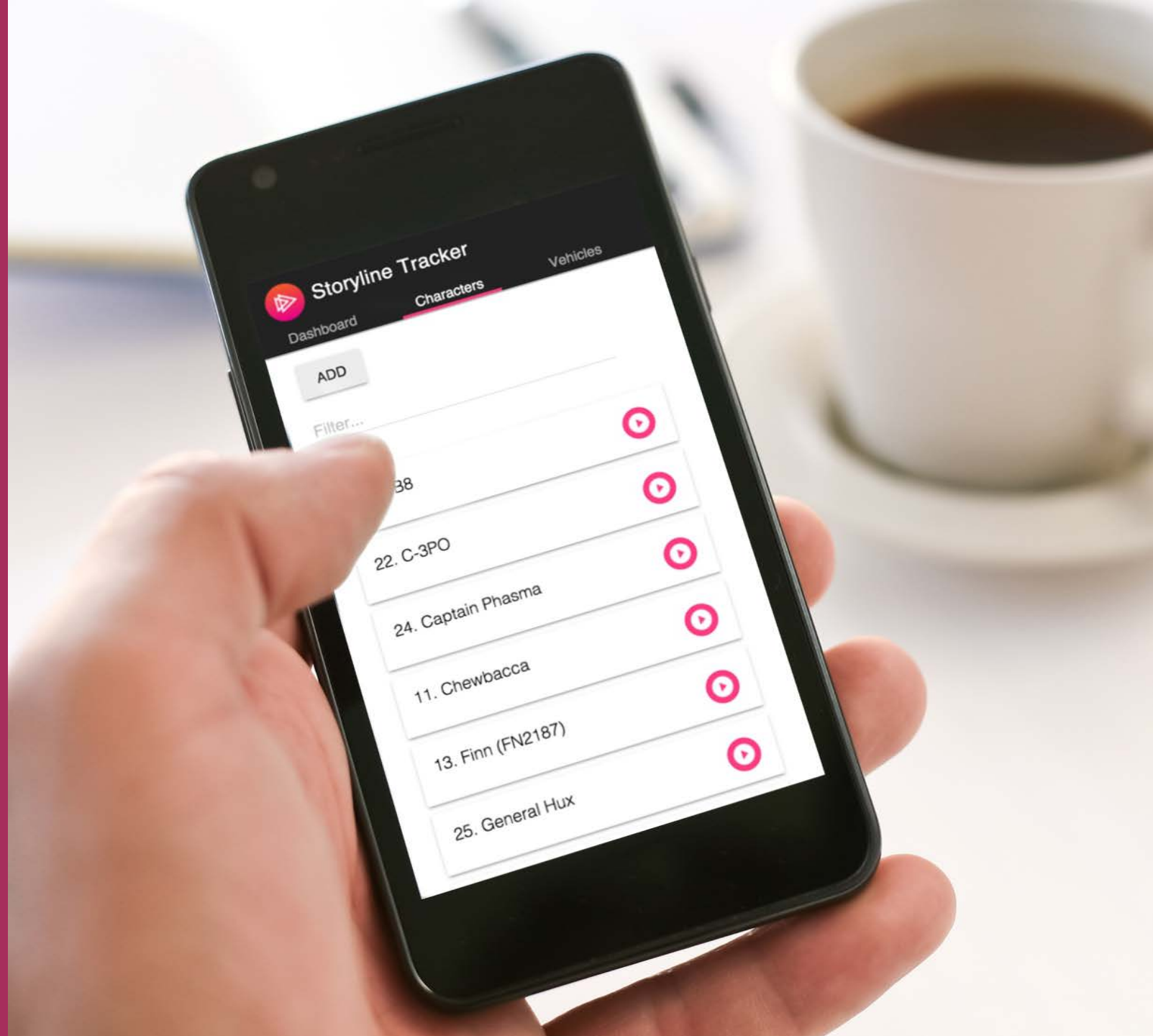
Update your project with ng update <package> <options>

Common ng update Options

Options	Alias	Description
--dryRun	-d	Run through without making changes
--all		Whether to update all packages in package.json
--force		Force updates, or error if installed packages are incompatible

Demo

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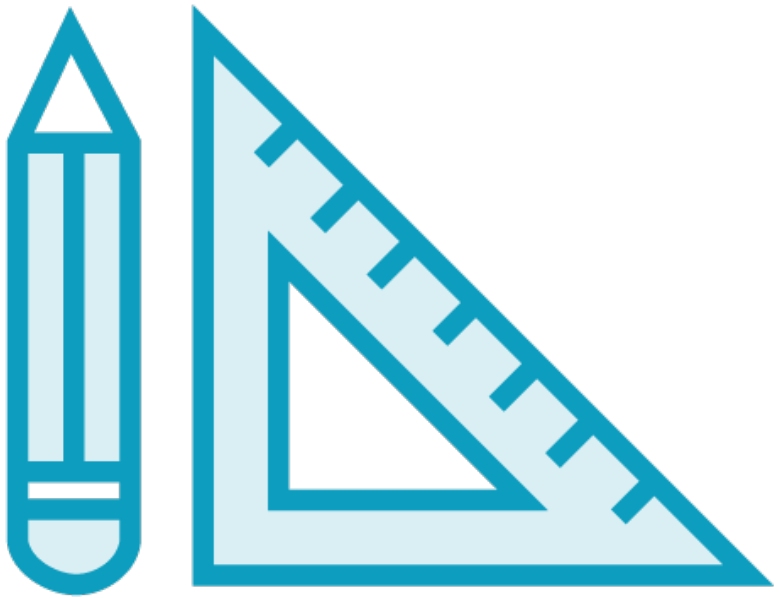
13. Finn (FN2187)
25. General Hux

Multiple Projects

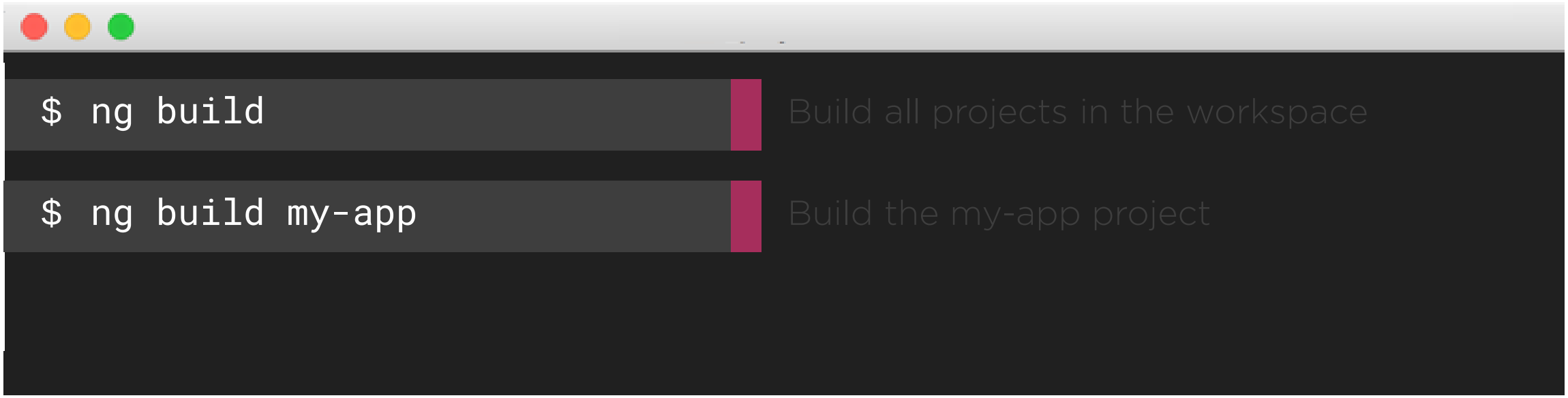


Workspaces

Multiple projects in one workspace

angular.json schema supports this

Build, test, serve many or just one



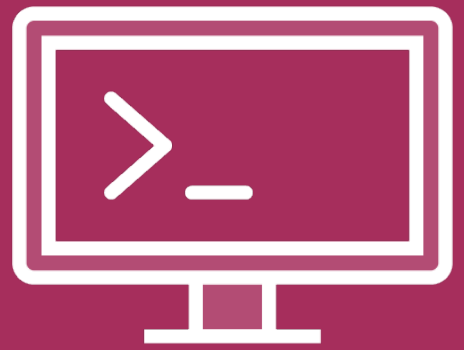
Targetting your workspace

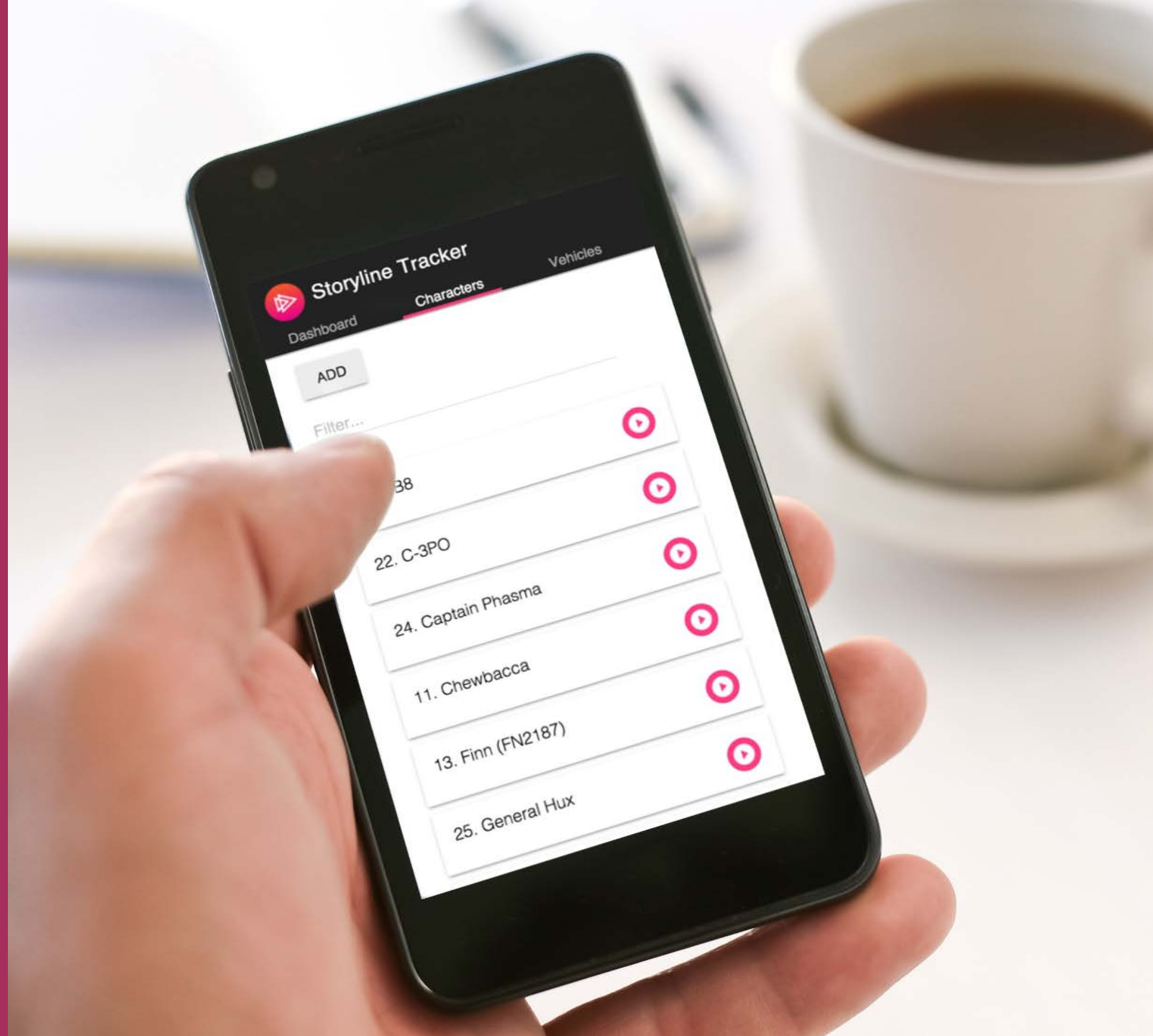
Target the workspace you want to affect with ng build <project>

Other commands support targets ng <command> <project>

- ng build, ng serve, ng test, ng e2e

Demo

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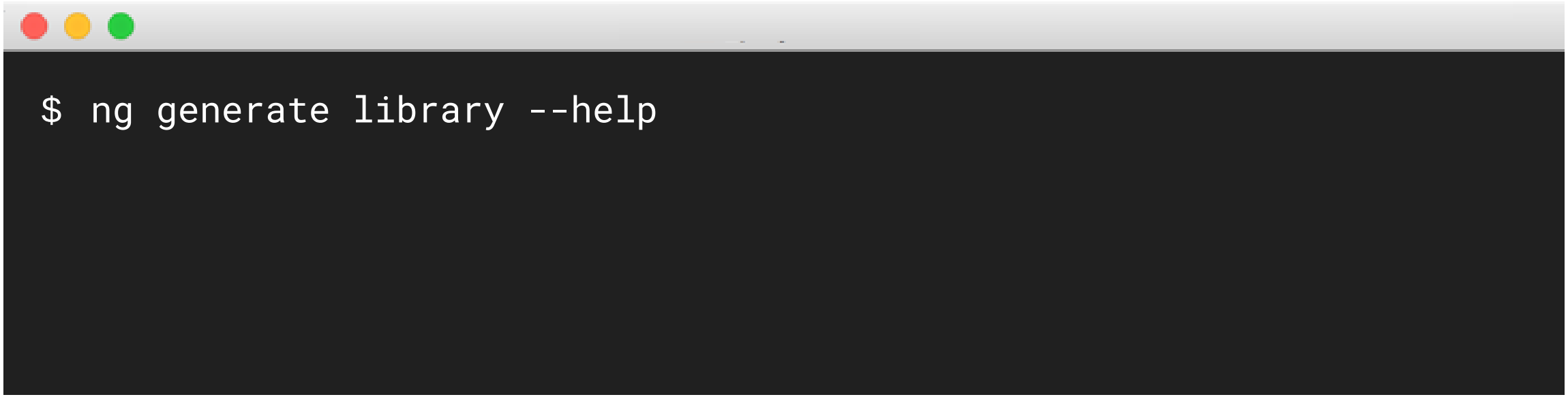
Generating Libraries

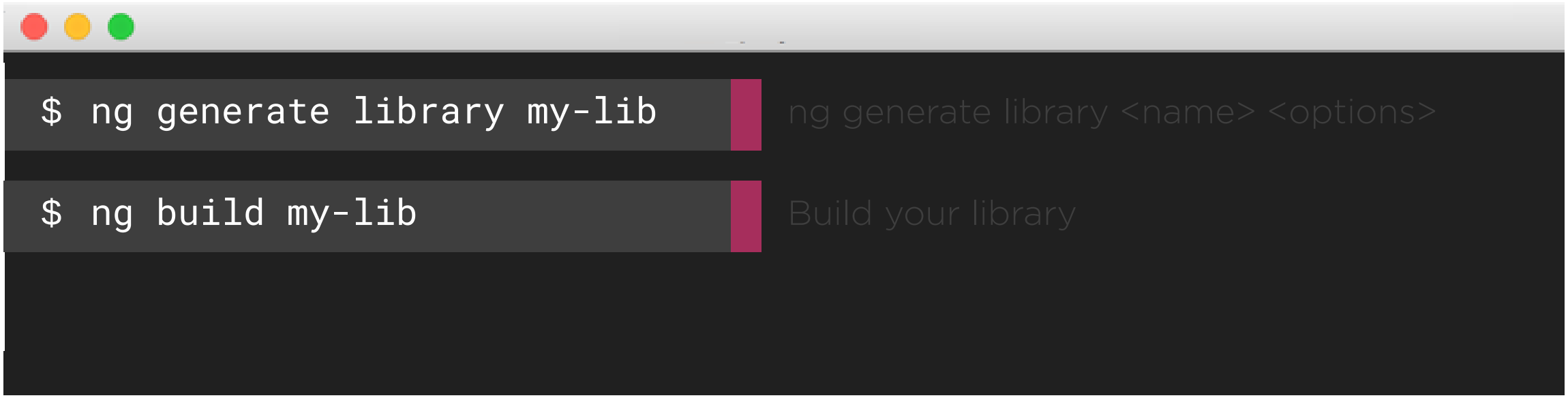
Library Support

Create and build libraries with Angular

Getting Help

Add the --help or -h flag





Generate Your Angular Library

Create with ng generate library <name> <options>

CLI updates your tsconfig to look for your library reference

Must build your library for your app to see it

Common ng generate library Options

Options	Alias	Description
--dryRun	-d	Run through without making changes
--entry-file		Path to create library's public API file
--skip-package-json		Do not add dependencies to package.json
--skip-ts-config		Do not update tsconfig.json for dev experience

Using Your Library

How the Angular CLI find libraries

Looks in the tsconfig paths then in the node_modules folder

Must build it before you can use it

```
ng build my-lib
```

Import it

```
import { logger } from 'my-lib';
```

Tips

Always rebuild libraries after making changes

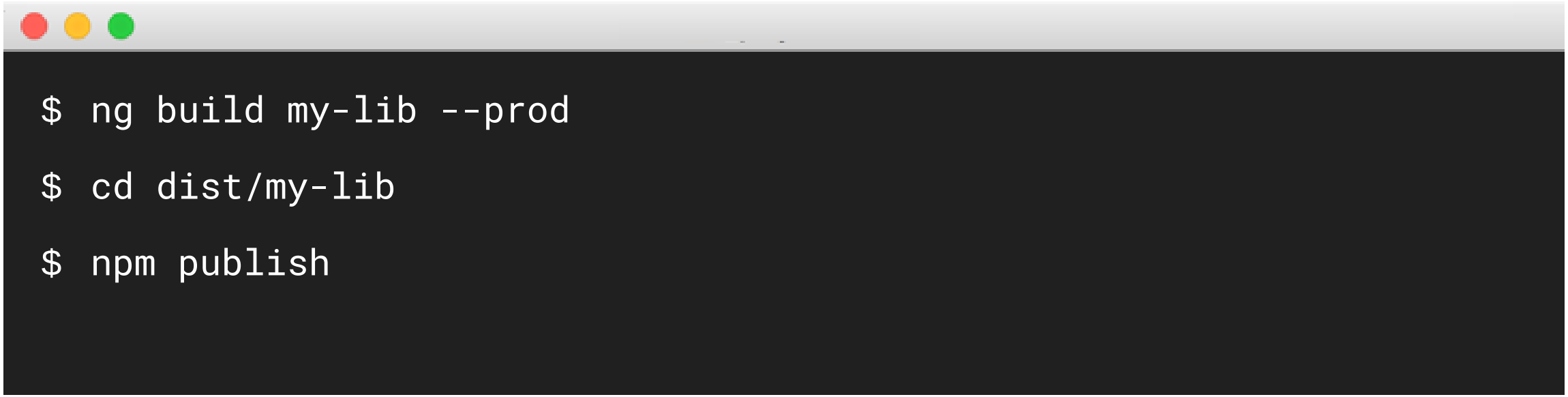
Keep your public_api.ts file current

Publishing Your Library

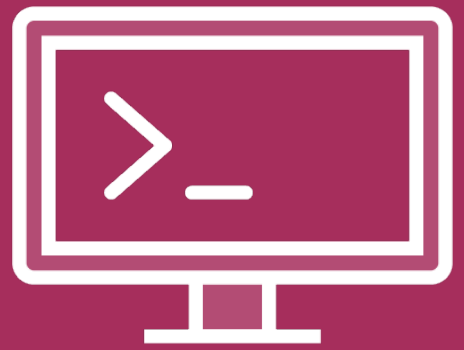
Build your library for production

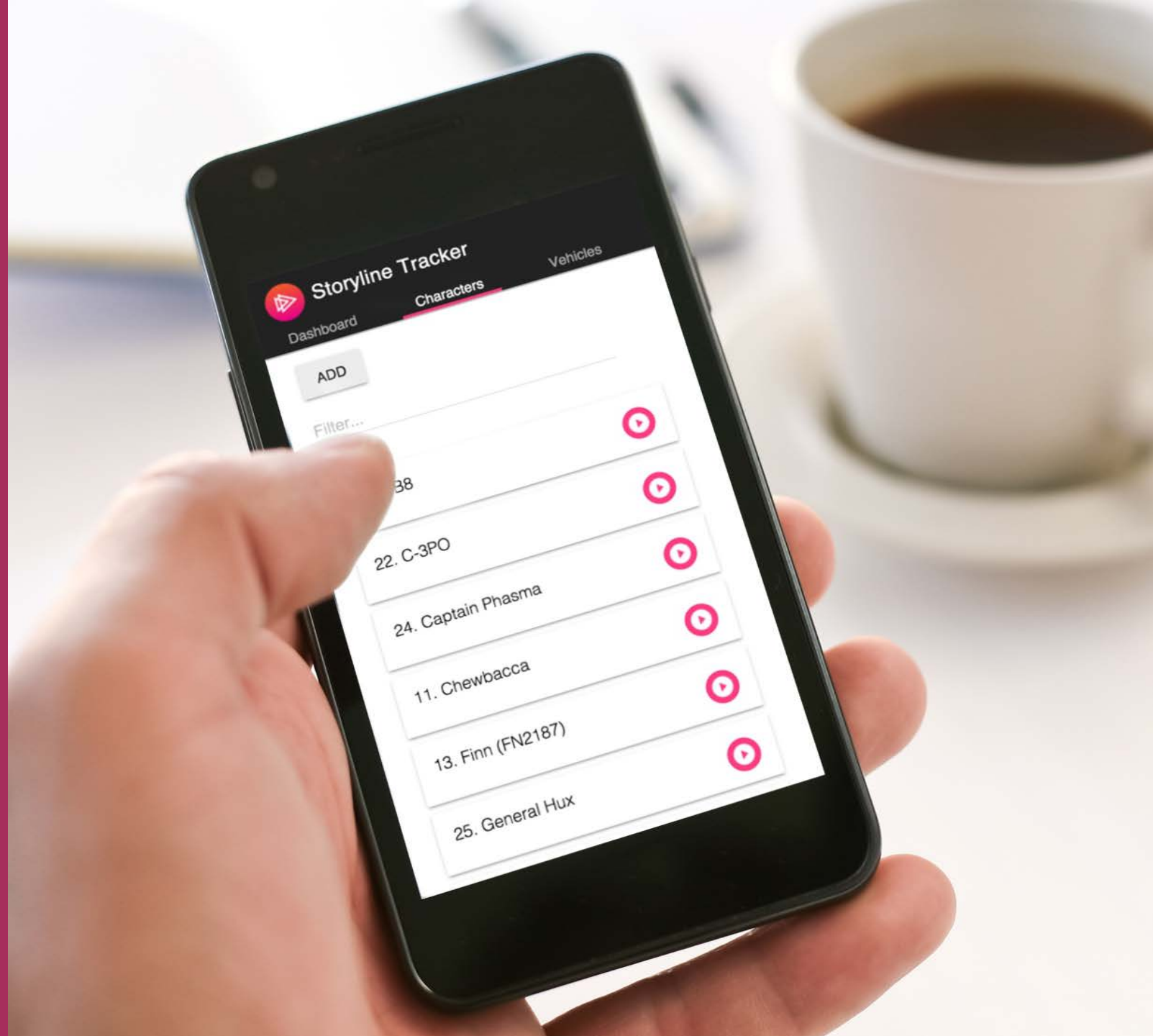
Publish to npm

How to publish to npm https://jpapa.me/npmpublish



Demo

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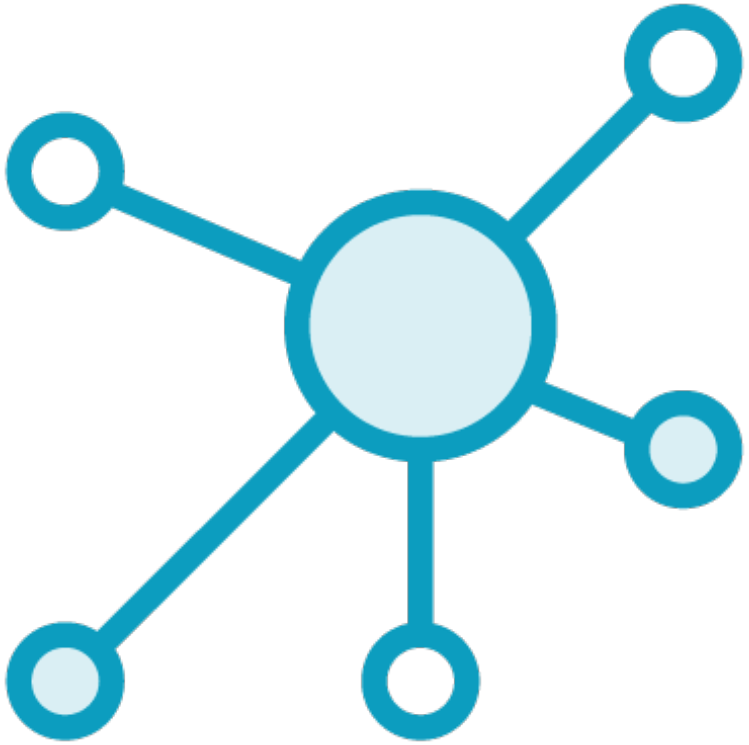
Adding to Angular

Refer to Module on Building and Serving for examples



Adding New Capabilities

ng add <package>

Add new capabilities to your app

New dependencies

Configure changes for the new capabilities

Angular Console

Download from

https://angularconsole.com

Angular Console

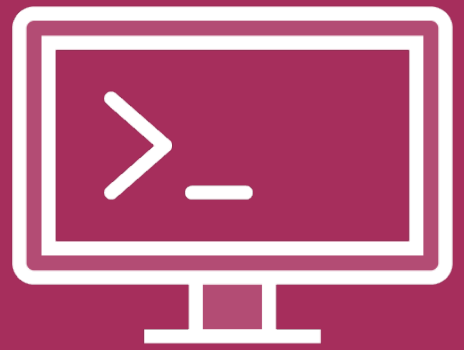
Everything the CLI can do

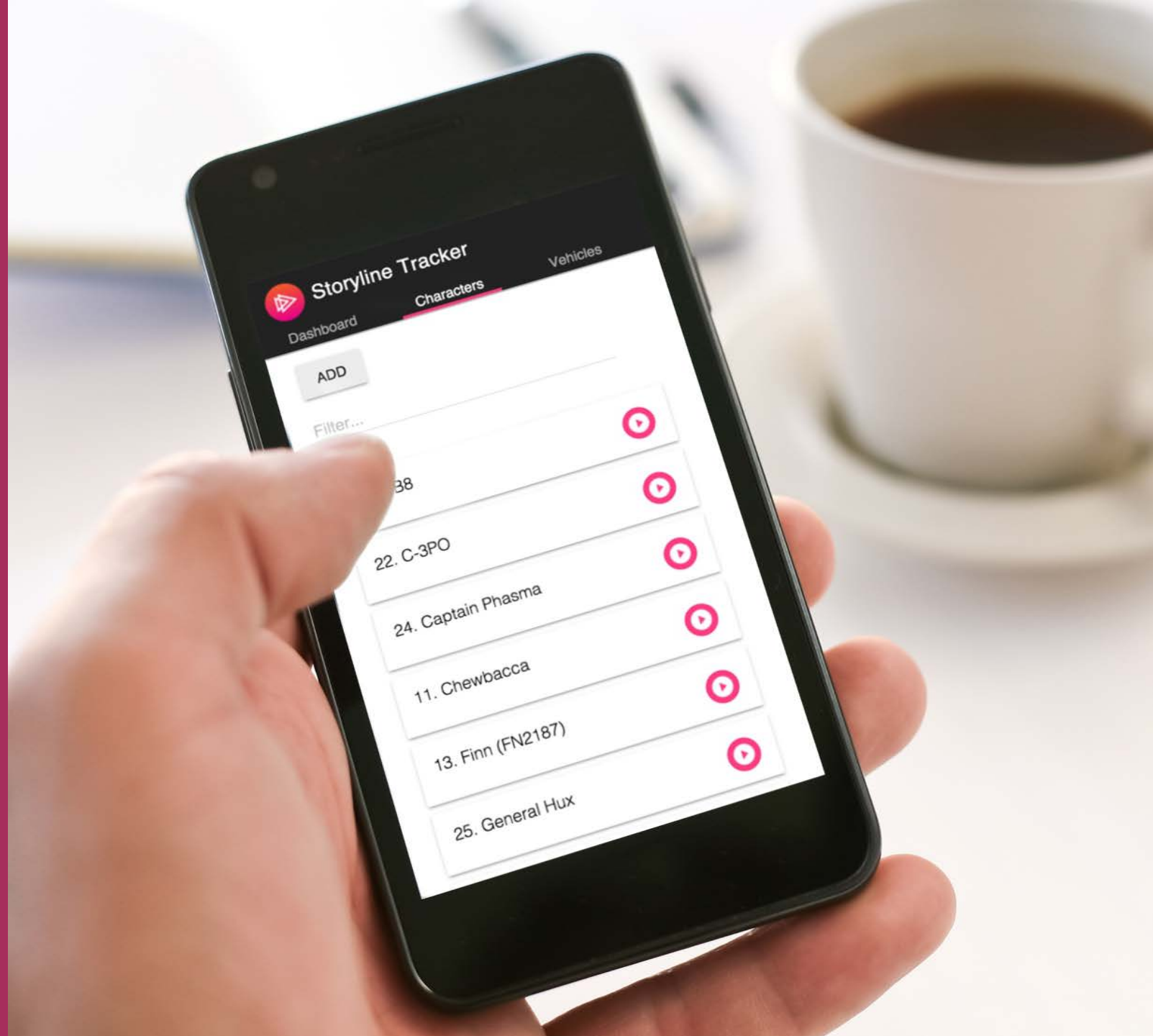
Visual experience

Discover and install extensions

Integrated terminal output

Demo

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