Tooling Features



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Tooling



Updating Angular
Workspaces with mul

Workspaces with multiple projects

Generating Angular Libraries

Adding Libraries to Angular

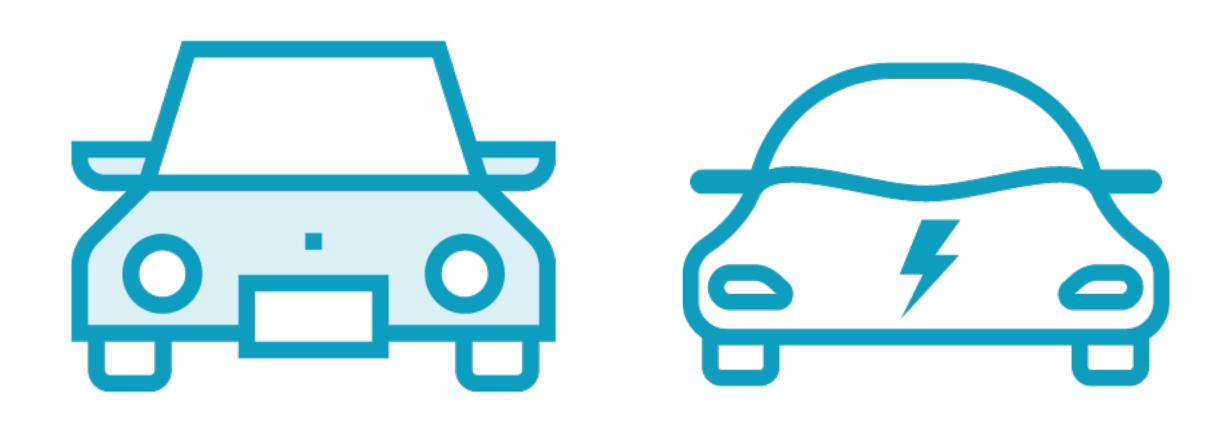
Angular with the Nx Console



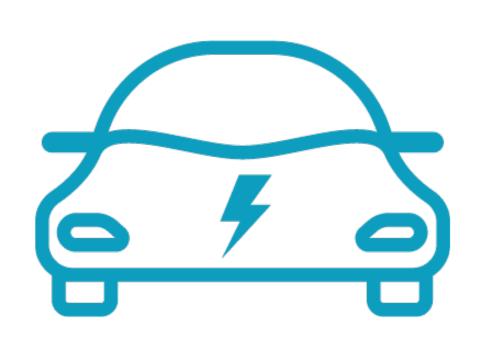
Updating Angular



ng update







ng update

Adopt current versions of Angular

Update 3rd party libraries with schematics

Transform your project

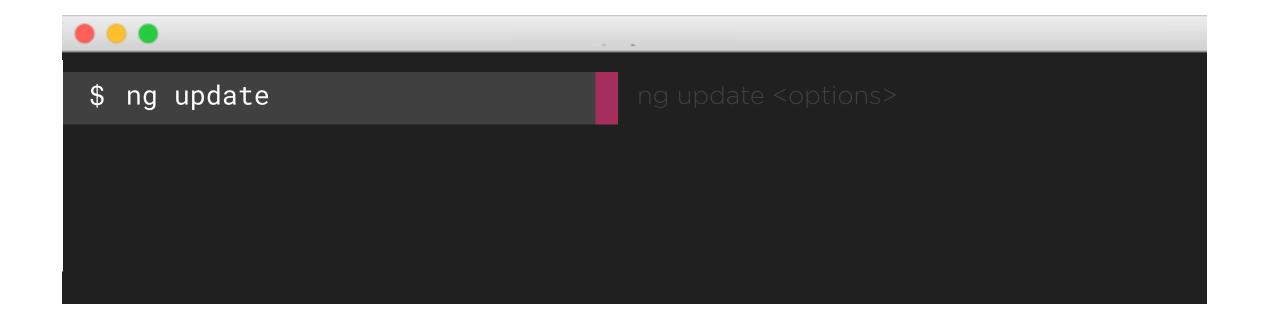


Getting Help

Add the --help or -h flag

```
$ ng update --help
```





Update Your Angular App

List the changes with ng update

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



Common ng update Options

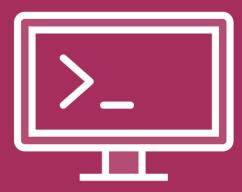
Options	Description	

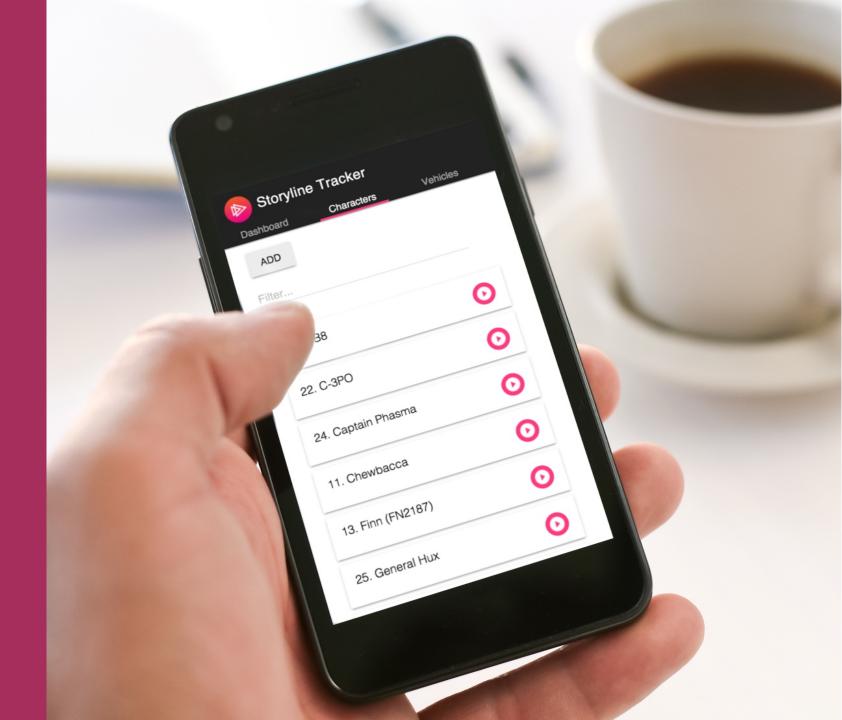
--all Whether to update all packages in package.json

--force Force updates, or error if installed packages are incompatible



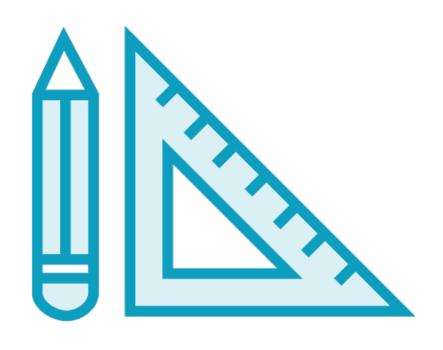
Demo





Multiple Projects





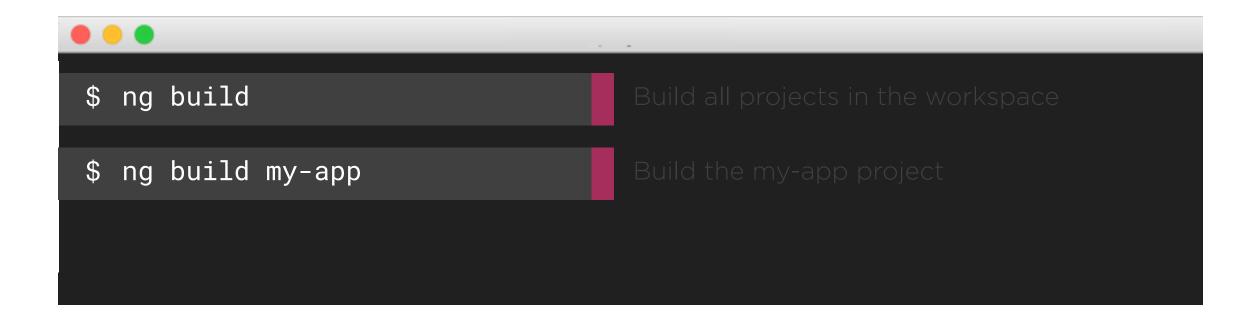
Workspaces

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>

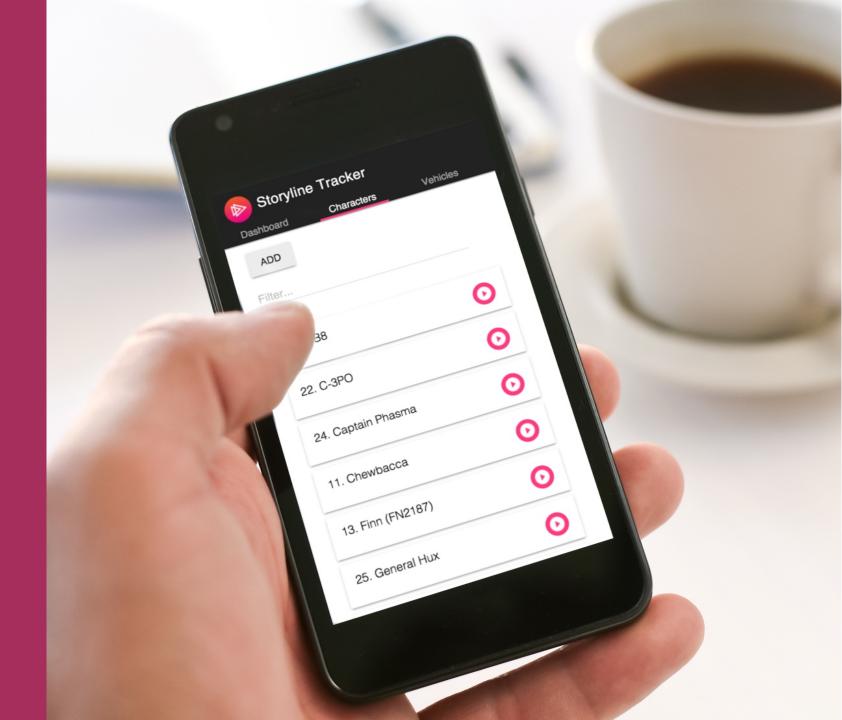
Other commands support targets ng <command> <command>

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



Demo





Generating Libraries





Library Support

Create and build libraries with Angular



Getting Help

Add the --help or -h flag

```
$ ng generate library --help
```



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
dry-run	-d	Run through without making changes
entry-file		Path to create library's public API file
skip-package-j	son	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

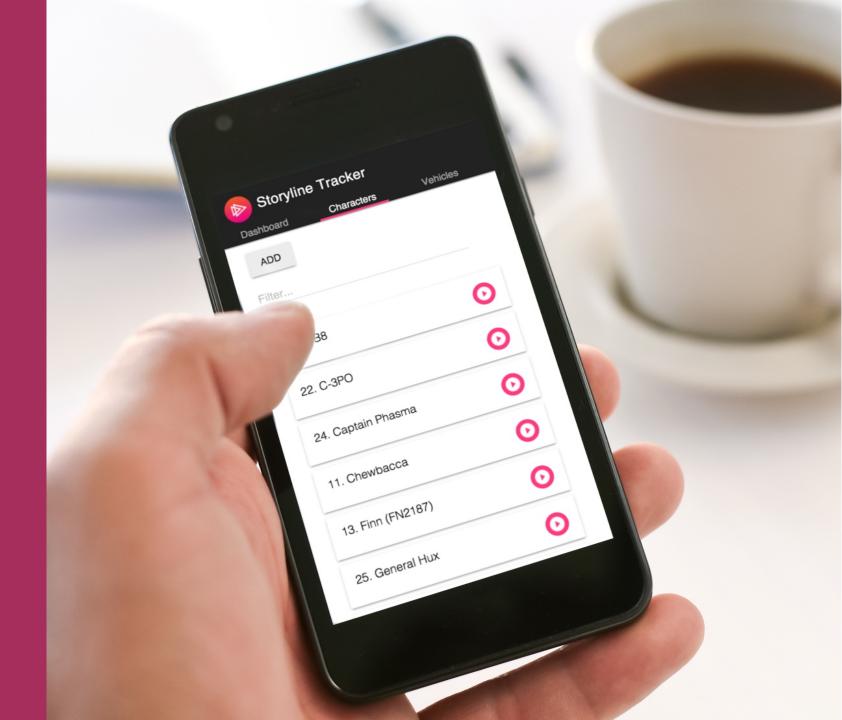


- \$ ng build my-lib --prod
- \$ cd dist/my-lib
- \$ npm publish



Demo

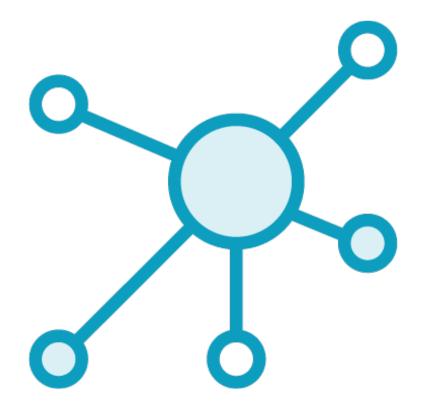




Adding to Angular



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

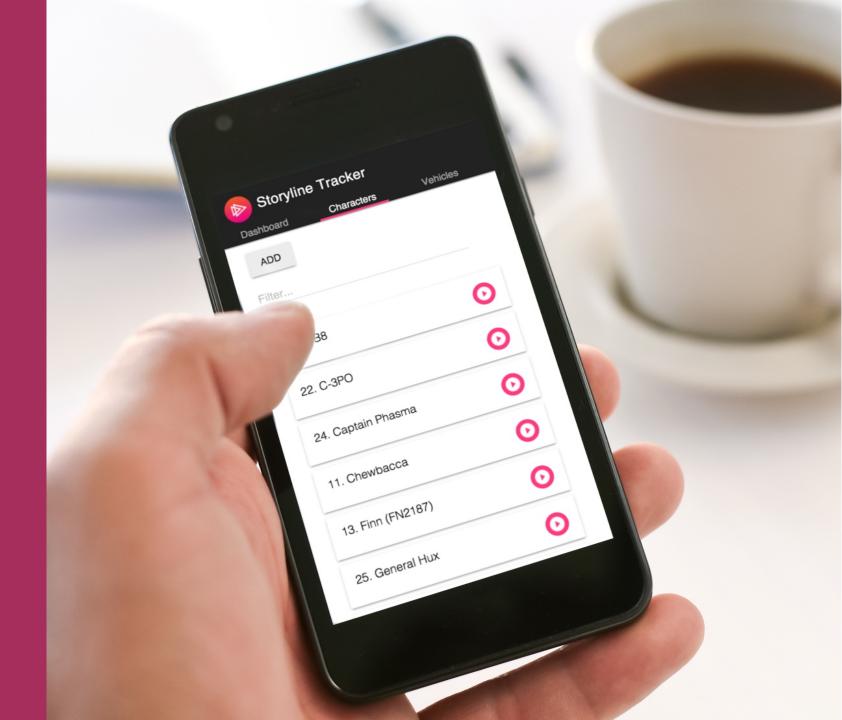
Discover and install extensions

Integrated terminal output



Demo





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