

Generating Code from Blueprints



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The Angular CLI generates
code from blueprints



Generating Code from Blueprints



**Blueprints for most common features
e.g. Components, Services, NgModules**

TypeScript blueprints

Options

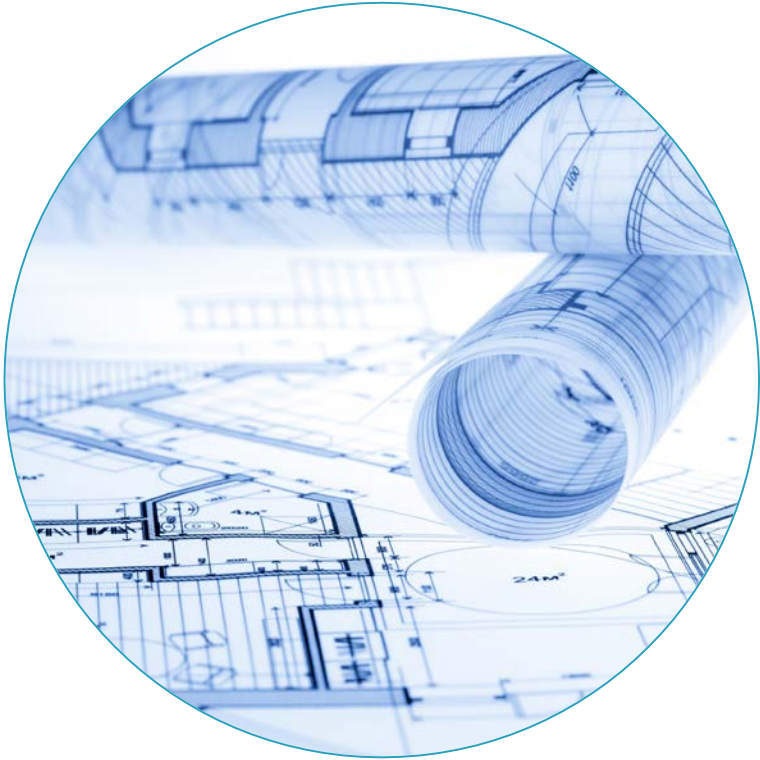
Aliases

Project configuration



The `ng generate <blueprint>` Command





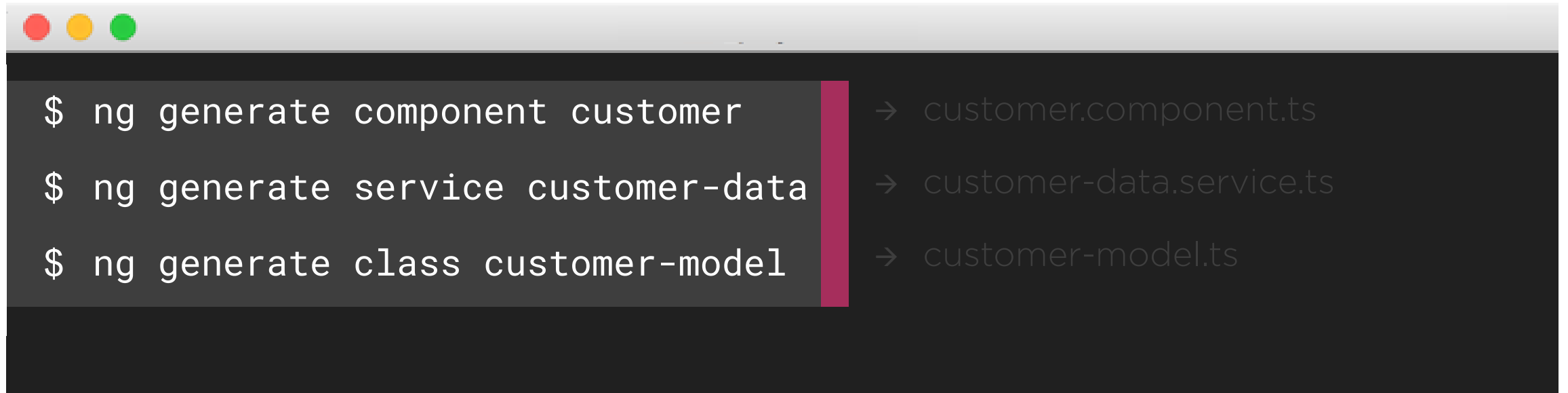
Blueprints

The Angular CLI generates from blueprints

Blueprints define the file(s)

We indicate a name and options





```
$ ng generate component customer      → customer.component.ts
$ ng generate service customer-data  → customer-data.service.ts
$ ng generate class customer-model   → customer-model.ts
```

Generating from Blueprints

The **generate** command will generate code from a blueprint

Syntax: **ng generate <blueprint> <options>**

Use the **--dry-run** option to practice



Components

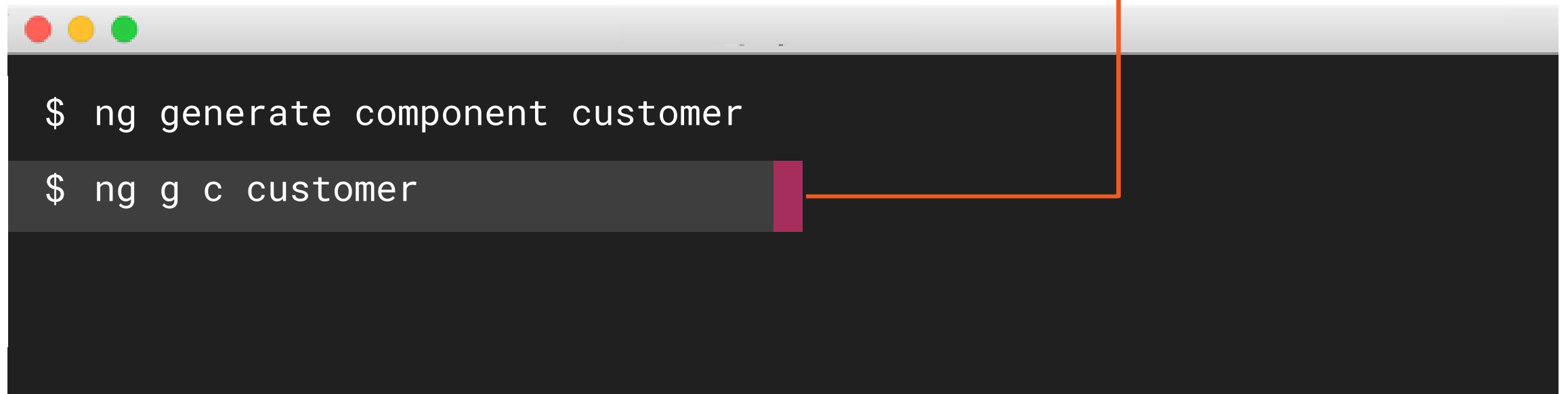


Aliases as Shortcuts

The **generate** command will generate code from a blueprint

Use the **g** alias as a shortcut for **generate**

Use the **c** alias as a shortcut for **component**



```
$ ng generate component customer  
$ ng g c customer
```



Common Component Blueprint Options

Options	Alias	Description
--flat		Should a folder be created?
--inline-template	-it	Will the template be in the .ts file?
--inline-style	-is	Will the style be in the .ts file?
--spec		Generate a spec?
--view-encapsulation	-ve	View encapsulation strategy
--change-detection	-cd	Change detection strategy
--dry-run	-d	Report the files, don't write them



Common Ways to Generate Components



```
$ ng generate component pet
```

```
$ ng generate component pet --inline-template --inline-style
```



```
$ ng g c pet
```

```
$ ng g c pet -it -is
```

Aliases makes efficient shortcuts



Commonly Used Commands



```
$ ng g c pet --flat
```

Don't create a /pet folder

```
--inline-template
```

Put the template in the .ts file

```
--inline-style
```

Put styles in the .ts file

```
--prefix my
```

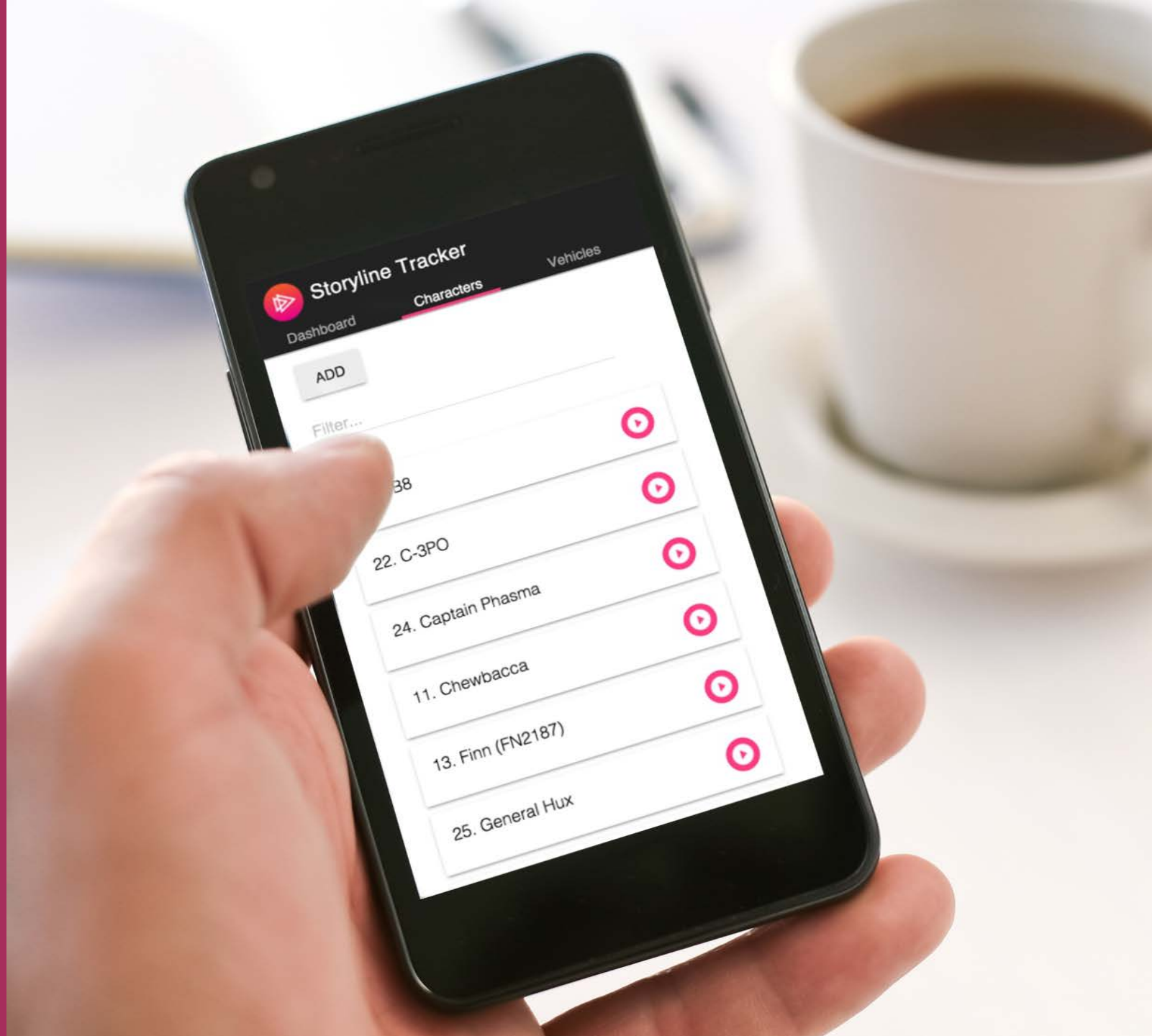
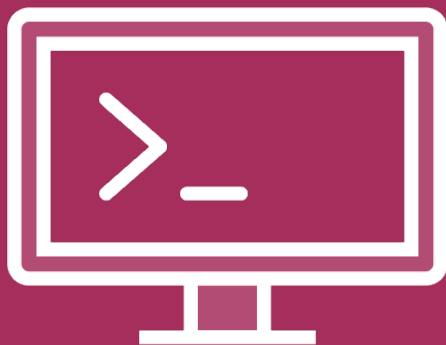
Prefix the component with my-

```
--spec false
```

Don't create a spec file



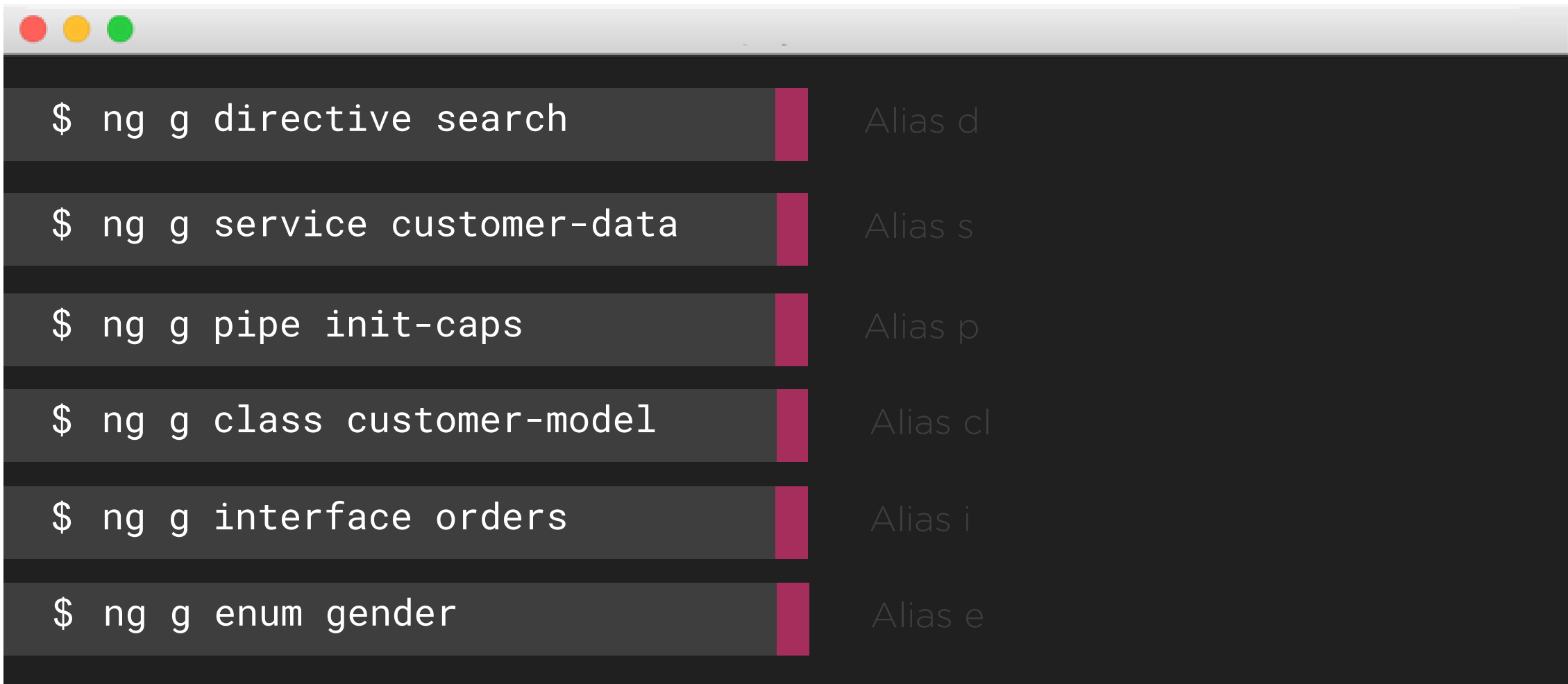
Demo



Out-of-the-box Blueprints

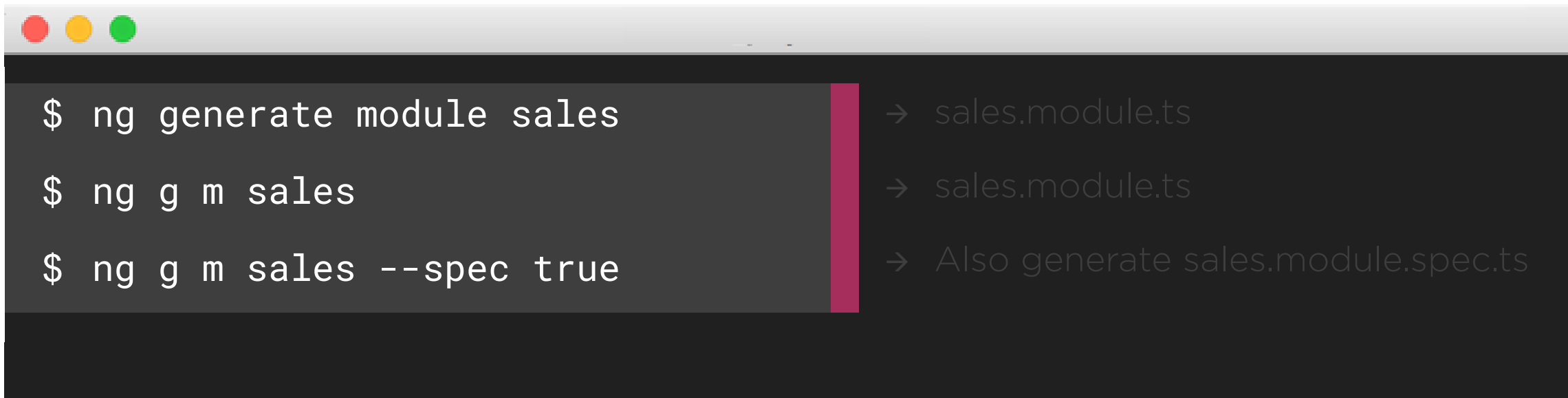


More Blueprints



\$ ng g directive search	Alias d
\$ ng g service customer-data	Alias s
\$ ng g pipe init-caps	Alias p
\$ ng g class customer-model	Alias cl
\$ ng g interface orders	Alias i
\$ ng g enum gender	Alias e





```
$ ng generate module sales  
$ ng g m sales  
$ ng g m sales --spec true
```

→ sales.module.ts
→ sales.module.ts
→ Also generate sales.module.spec.ts

NgModule BluePrints

Use **ng generate module <options>**

No spec by default

Consider if we want routing



Tip: Set Project Wide Settings



```
$ ng set defaults.component.flat true
```

```
$ ng set defaults.directive.flat true
```

```
$ ng set defaults.styleExt scss
```

Do not create a folder for components or directives

Use SASS across the project

Customize `.angular-cli.json`
according to your team's preferences



Getting Help

Add the **--help** flag



A terminal window with a dark background and a light gray title bar. The title bar has three colored window control buttons (red, yellow, green) on the left. The terminal displays the command `$ ng --help` in white text.

```
$ ng --help
```



Generating Code from Blueprints



Use the out-of-the-box blueprints

Lean on `ng --help` and the docs

Use aliases for blueprints and options

Practice with `--dry-run`

Customize the project wide settings

