# Angular CLI Cheat Sheet from Kendo UI

I am a big fan of the [Angular CLI](https://cli.angular.io/) because it makes it really easy to spin up a new Angular project and start customizing how it is built. Whenever I start a new Angular project, I immediately create the skeleton with ng new adding flags to for what version of Angular and what style library I want to use, then I start installing the [Kendo UI for Angular theme](http://www.telerik.com/kendo-angular-ui/components/styling/) and [components](http://www.telerik.com/kendo-angular-ui/components/) I need, then serve it up.

ng new awesome-new-project --ng4 --style sass

cd awesome-new-project

npm install @progress/kendo-theme-bootstrap @progress/kendo-angular-charts @progress/kendo-angular-intl @progress/kendo-angular-l10n @progress/kendo-drawing hammerjs @angular/animations

ng serve --live-reload --watch

I like this because then I’ve done everything, in the foreseeable future, that I need to do in the command line and I can open my code editor and get to work. Since I ran ng serve with the live-reload flag, every time there is a change my project will re-build and re-load the web server.

There are many great resources for digging into everything that the CLI provides you, like the [Angular CLI Wiki page](https://github.com/angular/angular-cli/wiki), but I’ve always wanted something quicker. I decided to put together a cheat sheet that allows you to quickly scroll through all the available CLI commands with their options and flags.

**Cheat Sheet Key**

The format for the cheat sheet has the CLI Command listed first along with its aliases, if they exist, in parenthesis next to it. Then there is a description of what the command does, where you can use the command and, if there are options to use with that command, the options are listed.

# Command: e2e (-e)

## Description

Run e2e tests in existing project.

## Works

Inside Project

Here with end-to-end testing, or e2e, we see that we can either run it as

ng e2e

or

ng e

This will run any existing e2e tests that exist in the project when we run it from inside the project directory.

Below that the command’s flags are listed. These basically let us customize how or when commands are run.

## Flags

### config (-c)

#### Type

String

**Description**

Use a specific config file. Defaults to the protractor config file in `.angular-cli.json`.

**Example**

ng e2e --config tests/configs/e2e.json

ng e -c tests/configs/e2e.json

Each flag will be listed followed by its alias in parenthesis if it has one. Then the Type will tell you what you can pass the flag. For instance, here we know we need to pass a string but some flags require Booleans or arrays. After that, the flag’s description is listed and an example of how you may use the command and flag.

I hope you find this cheat sheet handy in helping you build your Angular apps. If you’re a fan of building robust Angular apps faster, check out some of our Kendo UI Components and tools:

* [Build Native Angular Components Fast](http://www.telerik.com/kendo-angular-ui/components/)
* [Progress Theme Builder](http://themebuilder.telerik.com/kendo-angular-ui)
* [Blog Posts & Tutorials](https://developer.telerik.com/)

Happy Coding!

# Command: build

## Description

Compiles the application into an output directory, stored inside the dist directory.

## Flags

### 

### --aot

#### Description

Build using Ahead of Time compilation.

#### Type

Boolean

#### Examples

ng build --aot

### --app (-a)

#### Description

Specifies app name to use.

#### Type

String

#### Examples

ng build --app test ng build -a staging

### --base-href (-bh)

#### Description

Base url for the application being built.

#### Type

String

#### Examples

ng build --base-href http://test-staging.com ng build -bh test-staging.com

#### --deploy-url (-d)

#### Description

URL where files will be deployed.

#### Type

String

#### Examples

ng build --deploy-url http://test-staging.com ng build -d test-staging.com

### --environment (-e)

#### Description

Defines the build environment.

#### Type

String

#### Examples

ng build --environment prod ng build -e dev

### --extract-css (-ec)

#### Description

Extract css from global styles onto css files instead of js ones.

#### Type

Boolean

#### Examples

ng build --extract-css ng build -ec

### --i18n-file

#### Description

Localization file to use for i18n.

#### Type

String

#### Examples

ng build --i18n-file myi18n.json --i18n-format json --locale de

### --i18n-format

#### Description

Format of the localization file specified with --i18n-file.

#### Type

String

#### Examples

ng build --i18n-file myi18n.json --i18n-format json --locale de

### --locale,

#### Description

Locale to use for i18n.

#### Type

String

#### Examples

ng build --i18n-file myi18n.json --i18n-format json --locale de

### --missing-translation,

#### Description

How to handle missing translations for i18n.

#### Type

String

#### Options

error, warning, ignore

#### Examples

ng build --missing-translation warning

### --output-hashing (-oh)

#### Description

Define the output filename cache-busting hashing mode.

#### Type

String

#### Options

none, all, media, bundles

#### Examples

ng build --output-hashing bundles ng build -oh all

### --target (-t)

#### Description

Defines the build target.

#### Type

String

### Options

development (dev), production (prod)

#### Default

development

#### Examples

ng build --target=development ng build --prod

### --output-path (-op)

#### Description

Path where output will be placed.

#### Type

Path

### --sourcemaps (--sm, --sourcemap)

#### Description

Output sourcemaps.

#### Type

Boolean

### --vendor-chunk (-vc)

#### Description

Use a separate bundle containing only vendor libraries.

#### Type

Boolean

#### Default

true

#### Examples

ng build --vendor-chunk=false

### --verbose (-v)

#### Description

Adds more details to output logging.

#### Type

Boolean

#### Default

false

### --progress (-pr)

### Description

Log progress to the console while building.

#### Type

Boolean

#### Default

true

### --watch (-w)

#### Description

Run build when files change.

#### Type

Boolean

### Default

false

### --poll

#### Description

Enable and define the file watching poll time period (milliseconds).

#### Type

Number

#### Default

pollDefault

# Command: completion

## Description

Adds autocomplete functionality to ng commands and subcommands.

## Works

Everywhere

## Flags

### all (-a)

#### Description:

Generate a completion script compatible with both bash and zsh.

#### Type

Boolean

#### Default

true

### bash (-b)

#### Description

Generate a completion script for bash.

#### Type

Boolean

#### Default

false

### zsh (-z)

#### Type

Boolean

#### Default

false

# Command: doc

## Description

Opens the official Angular documentation for a given keyword on [angular.io](https://angular.io/).

## Works

everywhere

## Flags

### search (-s)

#### Type

String

#### Default

false

#### Example

ng doc --search=doc

# Command: e2e (-e)

## Description

Run e2e tests in existing project.

## Works

Inside Project

## Flags

### config (-c)

#### Type

String

#### Description

Use a specific config file. Defaults to the protractor config file in `.angular-cli.json`.

### specs (-sp)

#### Type

Array

#### Default

[]

#### Description

common\_tags\_1.oneLine Override specs in the protractor config. Can send in multiple specs by repeating flag (ng e2e --specs=spec1.ts --specs=spec2.ts).

### element-explorer (-ee)

#### Description

Start Protractor\'s Element Explorer for debugging.

#### Type

Boolean

#### Default

false

### webdriver-update (-wu)

#### Description

Try to update webdriver.

#### Type

Boolean

#### Default

true

### serve (-s)

#### Description

common\_tags\_1.oneLine Compile and Serve the app. All non-reload related serve options are also available (e.g. --port=4400).

#### Type

Boolean

#### Default

true

### port

#### Description

The port to use to serve the application.

#### Default

0

### watch

#### Description

Run build when files change.

#### Default

false

# Command: eject

## Description

Ejects your app and output the proper webpack configuration and scripts.

## Flags

### --force

#### Type

Boolean

#### Description

Overwrite any webpack.config.js and npm scripts already existing.

### --app (-a)

#### Description

Specifies app name to use.

#### Type

String

# Command: generate

### Options

'cl': 'class',

'c': 'component',

'd': 'directive',

'e': 'enum',

'g': 'guard',

'i': 'interface',

'm': 'module',

'p': 'pipe',

'r': 'route',

's': 'service'

# Command: get

## Description

Get a value from the configuration.

## Works

Everywhere

## Flags

### --global

#### Type

Boolean

#### Default

false

#### Description

Get the value in the global configuration (in your home directory).

# Command: help

## Description

Shows help for the CLI.

## Works

Everywhere

# Command: init

## Description

Creates a new Angular CLI project in the current folder.

## Works

Everywhere

## Flags

### --dry-run (-d)

#### Type

Boolean

#### Default

false

### --verbose (-v)

#### Type

Boolean

#### Default

false

### --link-cli (-lc)

#### Type

Boolean

#### Default

false

### --ng4

#### Type

Boolean

#### Default

false

### --skip-install (-si)

#### Type

Boolean

#### Default

false

### --skip-git (-sg)

#### Type

Boolean

#### Default

false

### --skip-tests (-st)

#### Type

Boolean

#### Default

false

### --skip-commit (-sc)

#### Type

Boolean

#### Default

false

### --name (-n)

#### Type

String

### --source-dir (-sd)

#### Type

String

#### Default

src

### --style

#### Type

String

#### Default

css

### --prefix (-p)

#### Type

String

#### Default

app

### --routing

#### Type

Boolean

#### Default

false

### --inline-style (-is)

#### Type

Boolean

#### Default

false

### --inline-template (-it)

#### Type

Boolean

#### Default

false

# Command: lint (l)

## Description

Lints code in existing project.

## Works

Inside Project

## Flags

### fix

#### Description

Fixes linting errors (may overwrite linted files).

#### Type

Boolean

#### Default

false

### --force

#### Description

Succeeds even if there was linting errors.

#### Type

Boolean

#### Default

false

### --format (-t)

#### Description

common\_tags\_1.oneLine

#### Type

String

### Options

prose, json, stylish, verbose, pmd, msbuild, checkstyle, vso, fileslist

#### Default

prose

# Command: new

## Description

Creates a new directory and a new Angular app.

## Works:

Outside of project

## Flags

### --dry-run (-d),

#### Description

Run through without making any changes.

#### Type

Boolean

#### Default

false

### --verbose (-v)

#### Description

Adds more details to output logging.

#### Type

Boolean

#### Default

false

### --link-cli (-lc)

#### Description

Automatically link the @angular/cli package.

#### Type

Boolean

#### Default

false

### --ng4

#### Description

Create a project with Angular 4 in the template.

#### Type

Boolean

#### Default

false

#### Examples

ng new test-project --ng4

### --skip-install (-si)

#### Description

Skip installing packages.

#### Type

Boolean

#### Default

false

#### Examples

ng new test-project --skip-install ng new test-project -si

### --skip-git (-sg)

#### Description

Skip initializing a git repository.

#### Type

Boolean

#### Default

false

### --skip-tests (-st)

#### Description

Skip creating spec files.

#### Type

Boolean

#### Default

false

### --skip-commit (-sc)

#### Description

Skip committing the first commit to git.

#### Type

Boolean

#### Default

false

### --directory (-dir)

#### Description

The directory name to create the app in.'

#### Type

String

### --source-dir (-sd)

#### Description

The name of the source directory.

#### Type

String

#### Default

src

### --style

#### Description

The style file default extension.

#### Type

String

#### Default

css

### --prefix (-p)

#### Description

The prefix to use for all component selectors.

#### Type

String

#### Default

app

### --routing

#### Description

Generate a routing module.

#### Type

Boolean

#### Default

false

### --inline-style (-is)

#### Description

Should have an inline style.

#### Type

Boolean

#### Default

false

### --inline-template (-it)

#### Description

Should have an inline template.

#### Type

Boolean

#### Default

false

# Command: serve (server, s)

## Description

Builds and serves your app, rebuilding on file changes.

## Flags

### --port (-p)

#### Description

Port to listen to for serving.

#### Type

Number

#### Default

defaultPort

### --host (-H)

#### Description

Listens only on ${defaultHost} by default.

#### Type

String

#### Default

defaultHost

### --proxy-config (-pc)

#### Description

Proxy configuration file.

#### Type

Path

### --ssl

#### Description

Serve using HTTPS.

#### Type

Boolean

#### Default

defaultSsl

### --ssl-key

#### Description

SSL key to use for serving HTTPS.

#### Type

String

#### Default

defaultSslKey

### --ssl-cert

#### Description

SSL certificate to use for serving HTTPS.

#### Type

String

#### Default

defaultSslCert

### --open (-o)

#### Type

Boolean

#### Default

false

#### Description

Opens the url in default browser.,

### --live-reload (-lr)

#### Description

Whether to reload the page on change, using live-reload.

#### Type

Boolean

#### Default

true

### --live-reload-client

#### Type

String

#### Description

Specify the URL that the live reload browser client will use.

### --hmr

#### Description

Enable hot module replacement.

#### Type

Boolean

#### Default

false

### --watch

#### Description

Rebuild on change.

#### Default

true

# Command: set

## Description

Set a value in the configuration.

## Works

Everywhere

## Flags

### --global (-g)

#### Description

Set the value in the global configuration rather than in your project\'s.

#### Type

Boolean

#### Default

false

# Command: test

## Flags

### --watch (-w)

#### Description

Run build when files change.

#### Type

Boolean

#### Default

true

### --code-coverage (-cc)

#### Description

Coverage report will be in the coverage/ directory.

#### Type

Boolean

#### Default

false

### --config (-c)

#### Description

Use a specific config file.

#### Type

String

#### Default

To the karma config file in .angular-cli.json.

### --single-run (-sr)

#### Description

Run tests a single time.

#### Type

Boolean

#### Default

false

### --progress

#### Description

Log progress to the console while in progress.

#### Type

Boolean

#### Default

true

### --browsers

#### Description

Override which browsers tests are run against.

#### Type

String

### --colors

#### Description

Enable or disable colors in the output (reporters and logs).

#### Type

Boolean

### --log-level

#### Description

Level of logging.

#### Type

String

### --port

#### Description

Port where the web server will be listening.

#### Type

Number

### --reporters

#### Description

List of reporters to use.

#### Type

String

### --sourcemaps (-sm, -sourcemap)

#### Description

Output sourcemaps.

#### Type

Boolean

#### Default

true

### --poll

#### Description

Enable and define the file watching poll time period (milliseconds).

#### Type

Number

#### Default

pollDefault

### --app (-a)

#### Description

Specifies app name to use.

#### Type

String

# Command: version (v, --version, -v)

## Description

Outputs Angular CLI version.

## Works

Everywhere

## Flags

### --verbose

#### Description

Adds more details to output logging.

#### Type

Boolean

#### Default

false

# Command: xi18n

## Description

Extracts i18n messages from source code.

## Works:

## Inside Project

## Flags

### --i18n-format (-f),

#### Description

Output format for the generated file.

#### Type

String

#### Default

xlf

#### Options

xmb, xlf

### --output-path (-op)

#### Description

Path where output will be placed.

#### Type

Path

#### Default

null

### --verbose

#### Description

Adds more details to output logging.

#### Type

Boolean

#### Default

false

### --progress

#### Description

Log progress to the console while running.

#### Type

Boolean

#### Default

true

### --app (-a)

#### Description

Specifies app name to use.

#### Type

String

### --locale (-l)

#### Description

Specifies the source language of the application.

#### Type

String

### --out-file (-of)

#### Description

Name of the file to output.

#### Type

String