

Angular meets GOF

Friday, September 13, 2019 2:07 PM

Install considerations for Angular
Global
Project specific

Installing Angular at the Global level does eliminate a few steps when creating a future projects however saving steps is not worth the price of locking in a specific version of Angular.

Installing Angular at the Project Level locks in the project to a specific version allowing future projects can be on a different (later) version.

The Angular environment is very active with updates and improvements.

To that end, it's time to start a new Visual Code Project.

1

1. Open Visual Code and issue CTRL-K,CTRL-O or select 'FILE' then Open Folder from the menu.
2. Select your base development directory (c:\dev)
3. Issue CTRL-SHIFT-` or New Terminal from the Terminal Menu Item
4. In the new terminal window issue the following command
5. Microsoft Windows [Version 10.0.18362.356]
6. C:\dev>npm @angular/cli new g-o-f

Issue this command starts the Angular scaffolding process with the latest version of Angular loaded specifically for that project.

The process will start and then will present the first installation choice:

Would you like to add Angular routing? (y/N)

For this project, routing will be used so 'y' is supplied as the answer.

The next response is focused on 'styling' used for the web side.

Which stylesheet format would you like to use? (Use arrow keys)

> CSS
SCSS [<https://sass-lang.com/documentation/syntax#scss>]
Sass [<https://sass-lang.com/documentation/syntax#the-indented-syntax>]
Less [<http://lesscss.org>]
Stylus [<http://stylus-lang.com>]

Accepted the default of 'CSS'

Now we are off to the races:

```
CREATE g-o-f/tslint.json (1988 bytes)
CREATE g-o-f/.editorconfig (246 bytes)
CREATE g-o-f/.gitignore (631 bytes)
CREATE g-o-f/browserslist (429 bytes)
CREATE g-o-f/karma.conf.js (1017 bytes)
CREATE g-o-f/tsconfig.app.json (270 bytes)
CREATE g-o-f/tsconfig.spec.json (270 bytes)
CREATE g-o-f/src/favicon.ico (948 bytes)
CREATE g-o-f/src/index.html (289 bytes)
CREATE g-o-f/src/main.ts (372 bytes)
CREATE g-o-f/src/polyfills.ts (2838 bytes)
CREATE g-o-f/src/styles.css (80 bytes)
CREATE g-o-f/src/test.ts (642 bytes)
CREATE g-o-f/src/assets/.gitkeep (0 bytes)
CREATE g-o-f/src/environments/environment.prod.ts (51 bytes)
CREATE g-o-f/src/environments/environment.ts (662 bytes)
CREATE g-o-f/src/app/app-routing.module.ts (246 bytes)
CREATE g-o-f/src/app/app.module.ts (393 bytes)
CREATE g-o-f/src/app/app.component.html (25530 bytes)
CREATE g-o-f/src/app/app.component.spec.ts (1095 bytes)
CREATE g-o-f/src/app/app.component.ts (209 bytes)
CREATE g-o-f/src/app/app.component.css (0 bytes)
CREATE g-o-f/e2e/protractor.conf.js (810 bytes)
CREATE g-o-f/e2e/tsconfig.json (214 bytes)
CREATE g-o-f/e2e/src/app.e2e-spec.ts (638 bytes)
CREATE g-o-f/e2e/src/app.po.ts (262 bytes)
[ ..... ] - fetchMetadata: sill pacote version manifest for webpack-dev-serv
```

Once the scaffolding process has finished, you are presented with a base application that will generate a generic web page.

Successfully initialized git.

C:\dev>

Change to the new file directory created by the generation process.

Cd c:\dev\g-o-f

Volume in drive C is Windows

Volume Serial Number is 5625-66C7

Directory of C:\dev\g-o-f

```
09/13/2019 02:29 PM <DIR> .
09/13/2019 02:29 PM <DIR> ..
09/13/2019 02:22 PM      246 .editorconfig
09/13/2019 02:22 PM      631 .gitignore
09/13/2019 02:22 PM    3,585 angular.json
09/13/2019 02:22 PM      429 browserslist
09/13/2019 02:22 PM <DIR>    e2e
09/13/2019 02:22 PM    1,017 karma.conf.js
09/13/2019 02:29 PM <DIR>    node_modules
09/13/2019 02:29 PM   473,541 package-lock.json
09/13/2019 02:22 PM    1,279 package.json
09/13/2019 02:22 PM    1,020 README.md
09/13/2019 02:22 PM <DIR>    src
09/13/2019 02:22 PM      270 tsconfig.app.json
09/13/2019 02:22 PM      543 tsconfig.json
09/13/2019 02:22 PM      270 tsconfig.spec.json
09/13/2019 02:22 PM    1,988 tslint.json

12 File(s)      484,819 bytes
5 Dir(s)  379,039,870,976 bytes free
```

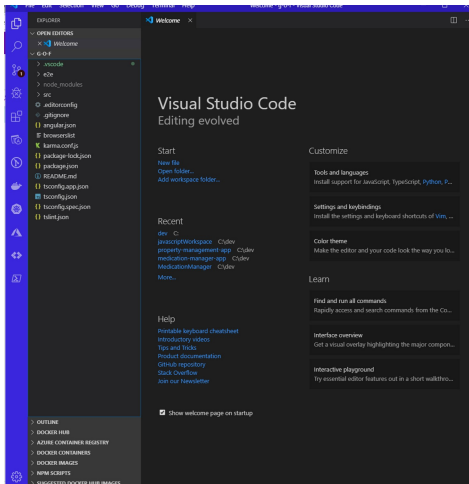
Key files at the base level:

Package.json

Package-lock.json

Angular.json

At this point, Visual Code is still pointing at c:\dev. From the file menu, chose open folder (ctrl+k, ctrl-o) and select the g-o-f directory.



Exploring the package.json file:

```
{
  "name": "g-o-f", <-- default application name update to your preferred name
  "version": "0.0.0", <-- versioning, change to 1.0.0
```

The scripts below will be modified from their default implementation.

For example the "start": "ng serve" will be one of the first scripts that will be modified.

```
"scripts": {
  "ng": "ng",
  "start": "ng serve",
  "build": "ng build",
  "test": "ng test",
  "lint": "ng lint",
  "e2e": "ng e2e"
},
```

```
  "dependencies": {
    "@angular/animations": "~8.2.5",
    "@angular/common": "~8.2.5",
    "@angular/compiler": "~8.2.5",
    "@angular/core": "~8.2.5",
    "@angular/forms": "~8.2.5",
    "@angular/platform-browser": "~8.2.5",
    "@angular/platform-browser-dynamic": "~8.2.5",
    "@angular/router": "~8.2.5",
    "rxjs": "~6.4.0",
    "tslib": "^1.10.0",
    "zone.js": "~0.9.1"
  },
```

```
  "devDependencies": {
    "@angular-devkit/build-angular": "~0.803.4",
    "@angular/cli": "~8.3.4",
    "@angular/compiler-cli": "~8.2.5",
    "@angular/language-service": "~8.2.5",
    "@types/node": "~8.9.4",
```

```
"@types/jasmine": "~3.3.8",
"@types/jasminewd2": "~2.0.3",
"codemirror": "5.0.0",
"jasmine-core": "~3.4.0",
"jasmine-spec-reporter": "~4.2.1",
"karma": "~4.1.0",
"karma-chrome-launcher": "~2.2.0",
"karma-coverage-istanbul-reporter": "~2.0.1",
"karma-jasmine": "~2.0.1",
"karma-jasmine-html-reporter": "~1.4.0",
"protractor": "~5.4.0",
"ts-node": "~7.0.0",
"tslint": "~5.15.0",
"typescript": "~3.5.3"
```

Note that each module has been loaded with specific version numbers and coding that impacts future upgrades to the modules.

This is echoed in the package-lock.json file.

```
"requires": {
  "@angular-devkit/architect": "0.803.4",
  "@angular-devkit/build-optimizer": "0.803.4",
  "@angular-devkit/build-webpack": "0.803.4",
  "@angular-devkit/core": "8.3.4",
  "@babel/core": "7.5.5",
  "@babel/preset-env": "7.5.5",
  "@ngtools/webpack": "8.3.4",
  "ajv": "6.10.2",
```

The Angular version that was installed at this point in time is 8.2.5.

Information regarding updates and versioning can be found [here](#).

Let's run the application:

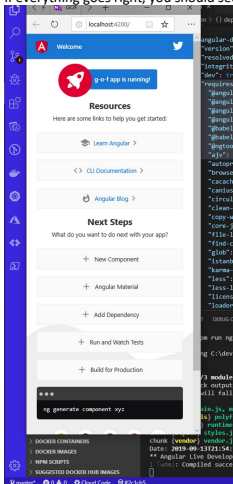
We'll use our "start" script with a slight modification. Adding the --o switch.

C:\dev\g-o-f>npm run ng serve -o

> g-o-f@0.0.0 ng C:\dev\g-o-f

> ng "serve"

If everything goes right, you should see the following:

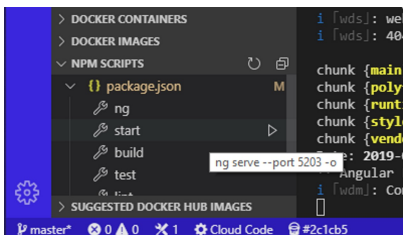


Before we go any further it is time to save the initiated project to a source control repository. Since Git is the default for VS Code, we'll be using GitHub as the SCR.

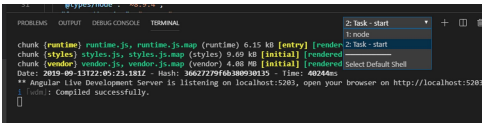
Before checking in our project, let's make a minor edit to the package.json file.

Change the start script to this: "start": "ng serve --port 5203 -o".

Now, from the visual studio ide, locate the NPM section, located bottom left.



Notice how the start script has been updated. Now by clicking the 'run' icon, the application will serve up the new page on port 5203 instead of the default of 4200.

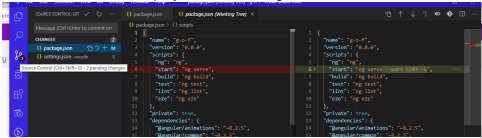


Notice that a new terminal window has opened. Issue ctrl+c to stop the running application.

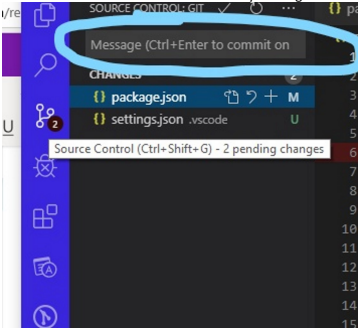
Terminate batch job (Y/N)? Y

The job will terminate and you can dismiss the window by pressing any key.

Now let's check the base project before adding more default behavior. Select the SCR icon in the IDE.

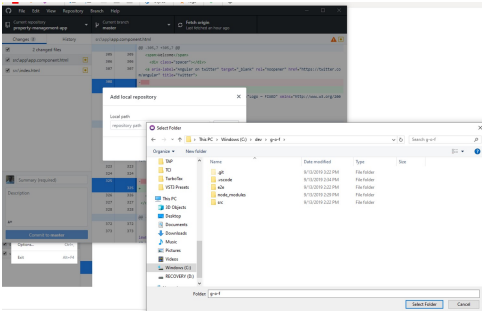


The files that have been updated and select a file will show the change compared against the original. Add a comment and then check the file by clicking on the checkmark.

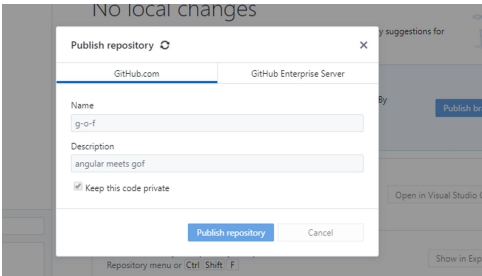


Your changes have been saved to your local repository. The last step is to add your local repository to the master code repository.

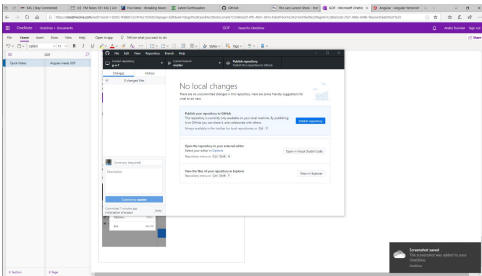
Using GitHub, open GitHub desktop the select 'add local repository from the menu and select the g-o-f folder.



Elect to keep the code private or public then click on "Publish repository"



You are returned to the base screen. Click on publish branch to commit it to the master repository.



Now, let's change the status of the project from "private" to "public" on the GitHub portal.

Overview **Repositories 35**

Find a repository...

g-o-f Private
angular meets gof

HTML Updated 8 minutes ago

Select the repository to change

Andre1503 / g-o-f Private

Unwatch 1 Star 0 Fork 0

Code Issues 1 Pull requests 0 Projects 0 Wiki Security Insights Settings

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Manage topics

2 commits 1 branch 0 releases 1 contributor

Branch master New pull request Create new file Upload file Find file Commit or discard

src	Initialization of project	10 minutes ago
code	initial commit	1 hour ago
src	initial commit	1 hour ago
editorconfig	initial commit	1 hour ago
gitignore	initial commit	1 hour ago
README.md	initial commit	1 hour ago
angular.json	initial commit	1 hour ago
browserslist	initial commit	1 hour ago
karma.conf.js	initial commit	1 hour ago
package-lock.json	initial commit	1 hour ago
package.json	Initialization of project	10 minutes ago
tsconfig.app.json	initial commit	1 hour ago
tsconfig.json	initial commit	1 hour ago
tsconfig.spec.json	initial commit	1 hour ago
tslint.json	initial commit	1 hour ago

README.md

Click on settings then navigate to the "Danger Zone", change the repositories status from private by clicking on "Make public"

Danger Zone

Make this repository public

Make this repository visible to anyone.

Make public

Transfer ownership

Transfer this repository to another user or to an organization where you have the ability to create repositories.

Transfer

Archive this repository

Mark this repository as archived and read-only.

Archive this repository

Delete this repository

Once you delete a repository, there is no going back. Please be certain.

Delete this repository

You are returned to your repository listing. Notice the "Private" badge is no longer present.

g-o-f
angular meets gof

HTML Updated 13 minutes ago