

ONE SOURCE TO RULE THEM ALL

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ABOUT THE GEEK

```
function getDeveloperInfo() {
  const dev = {
    name: 'John Niedzwiecki',
    desc: 'Your friendly neighborhood kilted coder.',
    company: 'Disney Streaming Services',
    role: 'Senior Software Engineer',
    twitter: '@kiltedcode',
    github: 'kiltedcode',
    web: 'https://kiltedcode.github.io',
    email: 'john.niedzwiecki.ii@gmail.com',
    currentDevLoves: ['Angular', 'JavaScript Everywhere', 'NativeScript', 'CSS fun'],
    nonDevAttr : {
      isHusband: true,
      isFather: true,
      hobbies: ['running', 'disney', 'cooking', 'video games', 'photography'],
      twitter: '@itshighlandjohn',
      web: 'http://www.rungeekrundisney.com'
    }
  };
  return dev;
}
```

WE WANT IT ALL.

WE WANT IT ALL

It's not uncommon that we - and the decision makers - want it all. In the world of applications we want both a web presence and a native mobile presence. What we don't want is to maintain competing parallel codebases.

FORGE ONE SOURCE

- ★ What do we want?
- ★ What is NativeScript?
- ★ @nativescript/schematics
- ★ xplat

WHAT DO WE WANT?

PROBLEM SOLVING

- ★ We *want* both a web and native application.
- ★ We *want* code reuse.
- ★ We *don't want* multiple separate projects.



WHAT IS NATIVESCRIPT

NATIVESCRIPT

Open source framework for building truly native
mobile apps with JavaScript.

This means you can work with Angular, Vue, or vanilla
JavaScript / TypeScript.

NATIVESCRIPT

- ★ Native performance
- ★ Extensible
- ★ Develop with what you know
- ★ Cross platform
- ★ Strong backing
- ★ Free and open source

NATIVESCRIPT LAYERS

- ★ Write our app logic in Angular
- ★ UI with HTML-like syntax
- ★ Style with CSS

NATIVESCRIPT LAYERS

NativeScript Runtime -> JavaScript Core -> Call Native APIs

NATIVESCRIPT SHARING

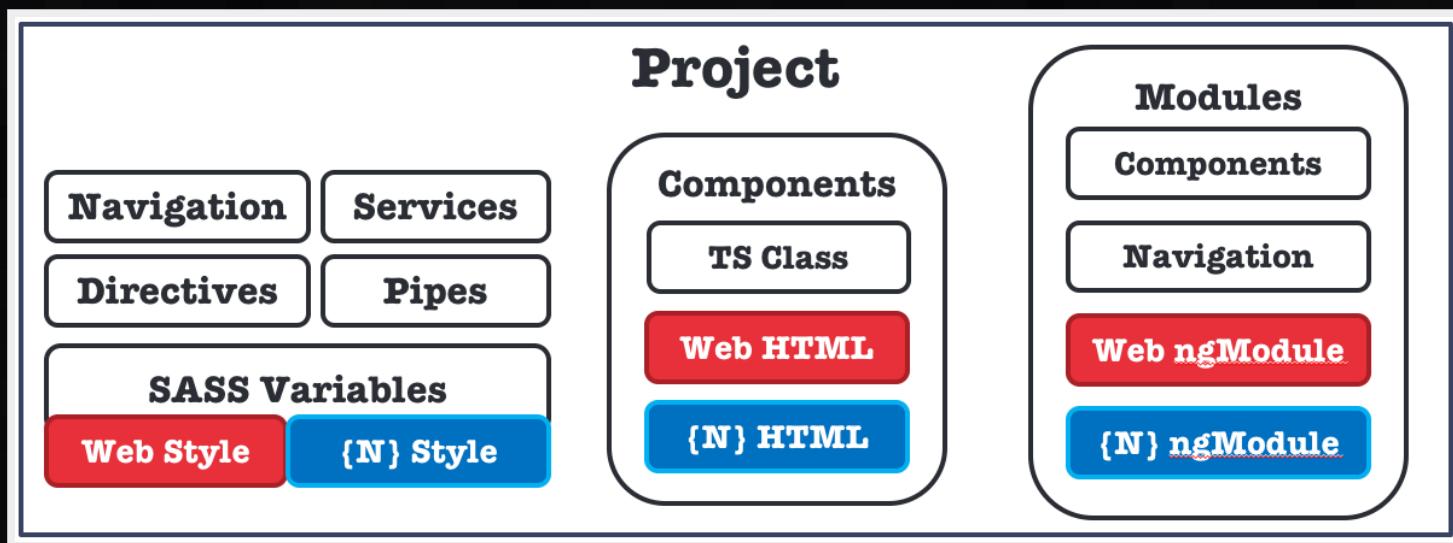


image: <https://docs.nativescript.org/>

SCHEMATICS TO THE RESCUE!

@NATIVESCRIPT/SCHEMATICS

Schematic collection created by the Angular and NativeScript teams to allow you to use the CLI to create both web and native mobile apps in one project.

<https://github.com/nativescript/nativescript-schematics>

UP AND RUNNING

```
npm install -g @angular/cli  
npm install -g @nativescript/schematics  
npm install -g nativescript  
  
ng new --collection=@nativescript/schematics hobbit-fitness-pal -
```

GENERATING

Generate the same way you always do with CLI. It will
add the extra sugar on top.

```
ng generate module meal-module
ng generate component meal-module/breakfast
ng generate component meal-module/second-breakfast
ng generate component meal-module/elevenses
```

HOW I DO IT

- ★ Generate my module
- ★ Generate components & more in module
- ★ Import and add to `module.common.ts`
- ★ Add to `module.tns.ts` & `module.ts`

RUNNING YOUR APP

```
ng serve  
tns run ios --bundle  
tns run android --bundle
```

xplat

XPLAT

Cross-platform tools for Nx workspaces.

Adds value through Nx (Nrwl Extentions) via
Schematics for cross-platform support.

<https://nstudio.io/xplat/>

XPLAT SUPPORT

- ★ NativeScript
- ★ Web
- ★ Ionic
- ★ Desktop: Electron *in progress*
- ★ SSR: Universal and Nest *in progress*

SETUP

```
npm install -g @nrwl/schematics  
npm install -g @angular/cli  
create-nx-workspace x-hobbit-fitness-pal  
  
npm install @nstudio/schematics --save-dev  
ng g xplat --prefix=foo --platforms=web,nativescript
```

XPLAT STRUCTURE

- ★ libs: platform agnostic code
 - ★ core, features, scss, utils
- ★ xplat: platform specific code
 - ★ @workspace/nativescript
 - ★ @workspace/web

XPLAT DEVELOPER MODE

Support for teams where not everyone wears all hats.

- ★ web only: `ng g mode web`
- ★ nativescript only: `ng g mode nativescript`
- ★ fullstack (everything): `ng g mode fullstack`

XPLAT BENEFITS

- ★ Robust structure for code sharing
- ★ Easier to take advantage deeper platform advantages

XPLAT SAMPLE

SketchPoints

The work of SwishMoney and nStudio, presented at
ng-conf. Mobile, web, SSR with Universal.

<https://github.com/nstudio/xplat-sample>

ONE SOURCE TO RULE THEM ALL,
ONE SOURCE TO FIND THEM,
ONE SOURCE TO BRING THEM ALL
AND IN THE ANGULAR BIND THEM.

GO FORGE YOUR PRECIOUS



Find me: @kiltedcode

<https://kiltedcode.github.io/>

Code: <https://github.com/KiltedCode/one-source>