

About Me...



ExpertsAngular

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Developer / Trainer / Speaker









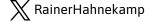


https://github.com/softarc-consulting/sheriff

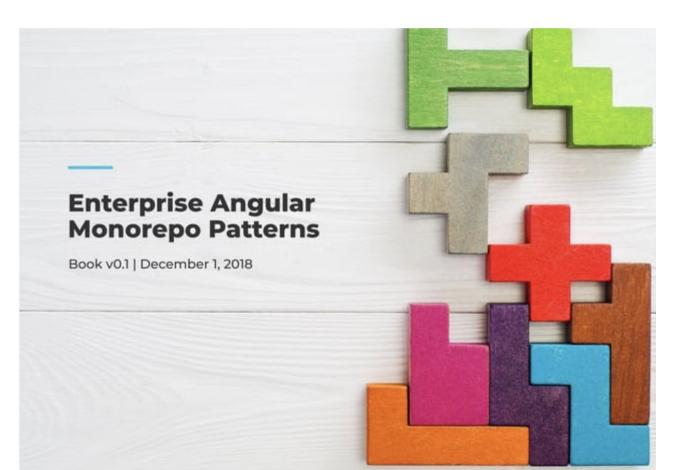


Agenda

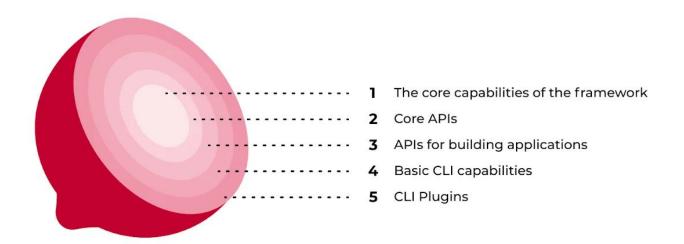
- 1. What is Nx?
- 2. Nx Quick Feature Run
- 3. Nx and Modules
- 4. Sheriff
- 5. Sheriff & Nx
- 6. Current Challenges: Barrel File / Tree Shaking / Code Splitting







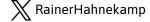




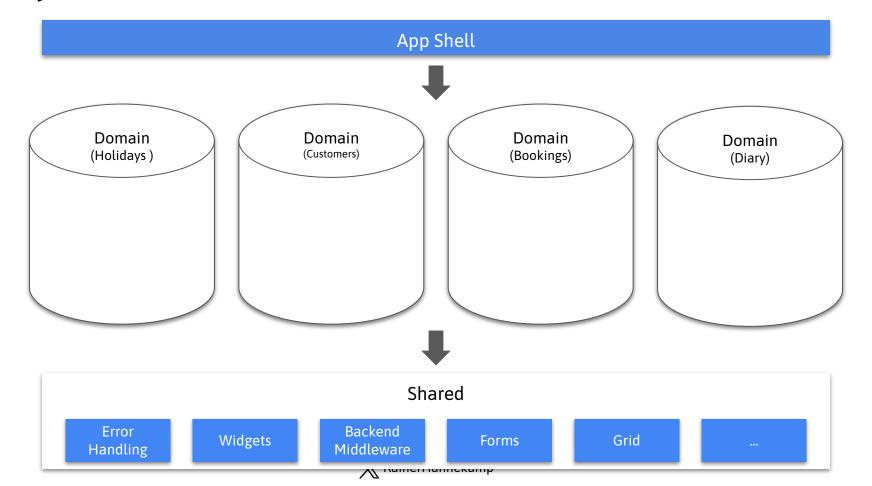


Nx Highlights

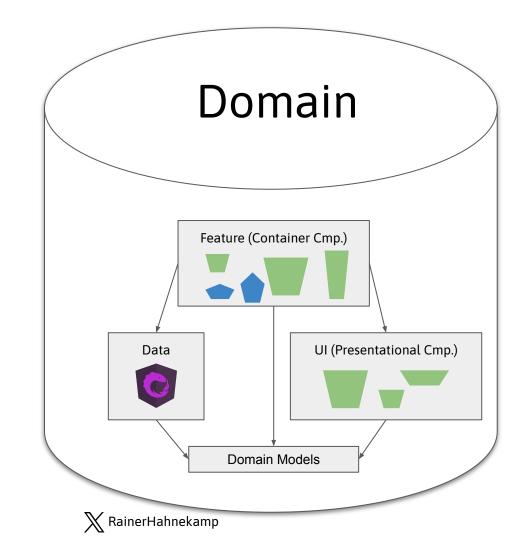
- 1. Tooling
- 2. Caching & Affected
- 3. Cloud
- 4. Visualization
- 5. Library Support

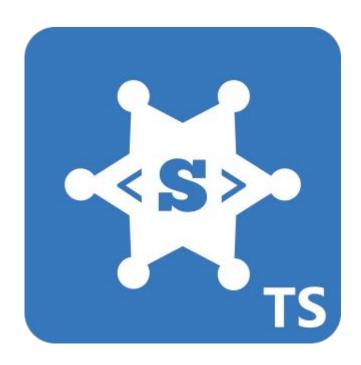


Layer 1 - Domain modules



Layer 2 Sub Modules





Module Encapsulation

```
import { Component, inject } from '@angular/core';
                                         1
Project ~
                                              import { InternalService } from '../data/internal-service';
                                         2

✓ ☐ src

                                         3

✓ □ app

                                              @Component({
                                         4
    > Core
                                         5
                                                selector: 'app-holiday',

✓ □ holidays

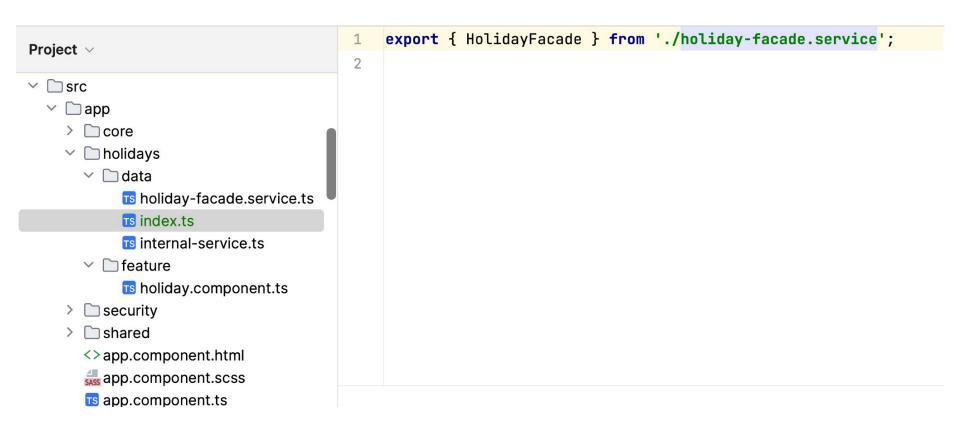
                                                template: ``,
                                        6 DT

✓ ☐ data
                                                standalone: true,
                                         7 1
           noliday-facade.service.ts
                                              })
                                         8
           rs internal-service.ts
                                              export class HolidayComponent {
                                         9

✓ ☐ feature

                                                 data:boolean = inject(InternalService).load();
                                       10
           is holiday.component.ts
                                       11
    > a security
                                       12
      shared
      <>app.component.html
      app.component.scss
      s app.component.ts
```

s app.routes.ts



```
import { Component, inject } from '@angular/core';
Project ~
                                               import { InternalService } from '../data/internal-service';

✓ ☐ src

                             ESLint: Deep import is not allowed. Use the module's index.ts or path.(@softarc/sheriff/deep-import)

✓ □ app

    > core
                                                 selector: 'app-holiday',
                                         5 1

✓ ☐ holidays

                                                 template: ``,
                                          6 DT

∨ □ data
                                          7 1
                                                 standalone: true,
           noliday-facade.service.ts
                                               })
                                          8
           index.ts
                                               export class HolidayComponent {
                                          9
           internal-service.ts
                                                 data:boolean = inject(InternalService).load();
                                         10

✓ ☐ feature

                                         11
           s holiday.component.ts
                                        12
      security
      shared
       <>app.component.html
       app.component.scss
       s app.component.ts
```

```
import { Component, inject } from '@angular/core';
Project ~
                                         2
                                              import { HolidayFacade } from '../data';

→ src

✓ □ app

                                              @Component({
                                         4
    > core
                                        5 1
                                                selector: 'app-holiday',

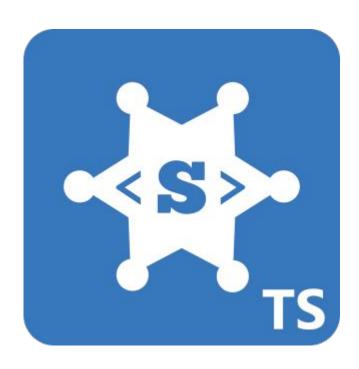
✓ ☐ holidays

                                                template: ``,
                                        6 DT

∨ □ data
                                         7 1
                                                standalone: true,
           noliday-facade.service.ts
                                              })
                                         8
           index.ts
                                              export class HolidayComponent {
                                         9
           internal-service.ts
                                                data:boolean = inject(HolidayFacade).data;
                                       10

→ feature

                                       11
           s holiday.component.ts
                                       12
      security
      shared
       <>app.component.html
       app.component.scss
                                       HolidayComponent
       s app.component.ts
```

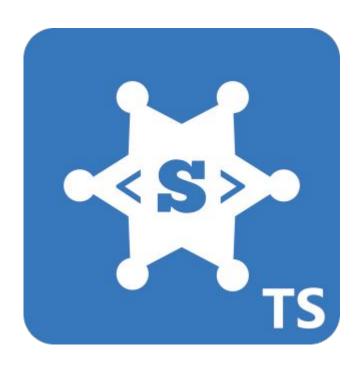


- Module Encapsulation
- Dependency Rules

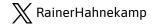
```
1
      import { SheriffConfig } from '@softarc/sheriff-core';
 3
      export const sheriffConfig: SheriffConfig = {
 4 01
        version: 1,
 5 01
        tagging: {
          'src/app/holidays/data': ['domain:holidays', 'type:data'],
 6
          'src/app/holidays/feature': ['domain:holidays', 'type:feature'],
          'src/app/holidays/ui': ['domain:holidays', 'type:ui'],
9
        },
10 0
        depRules: {},
11
      };
12
```

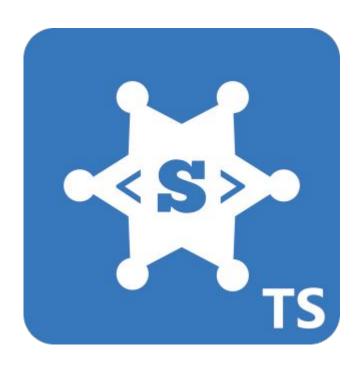
Run

```
import {SheriffConfig} from "@softarc/sheriff-core";
3
      export const sheriffConfig: SheriffConfig = {
4 01
        version: 1,
5
        tagging: {
           'src/app/holidays/feature': ['domain:holidays', 'type:feature'],
 6
           'src/app/holidays/data': ['domain:holidays', 'type:data']
8
        }, depRules: {
           'domain:holidays': 'domain:holidays',
           'type:feature': 'type:data',
10
           'type:data': []
11
12
13
14
```

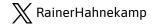


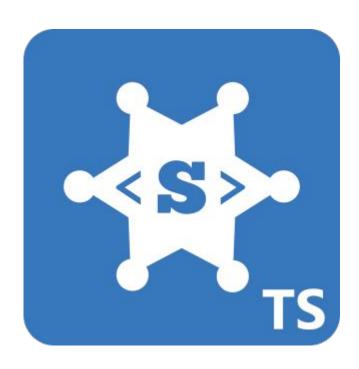
- Module Encapsulation
- Dependency Rules
- Lightweight



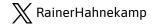


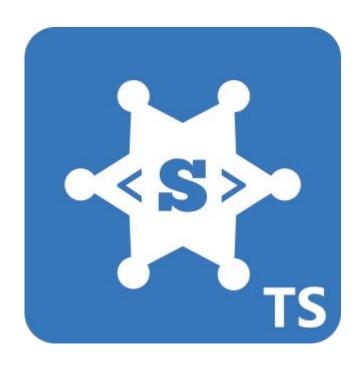
- Module Encapsulation
- Dependency Rules
- Lightweight
- Convention over Configuration



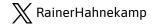


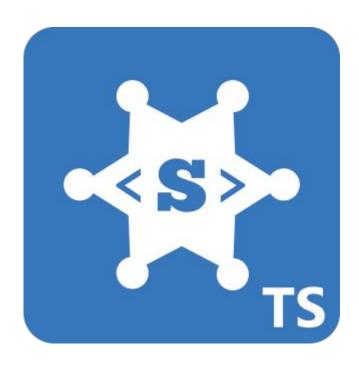
- Module Encapsulation
- Dependency Rules
- Lightweight
- Convention over Configuration
- Zero Dependencies



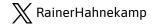


- Module Encapsulation
- Dependency Rules
- Lightweight
- Convention over Configuration
- Zero Dependencies
- For all TypeScript Projects





- Module Encapsulation
- Dependency Rules
- Lightweight
- Convention over Configuration
- Zero Dependencies
- For all TypeScript Projects
- (Heavily) Influenced by Nx



Nx Pros & Cons

✓ Provides a set of **exclusive Features**

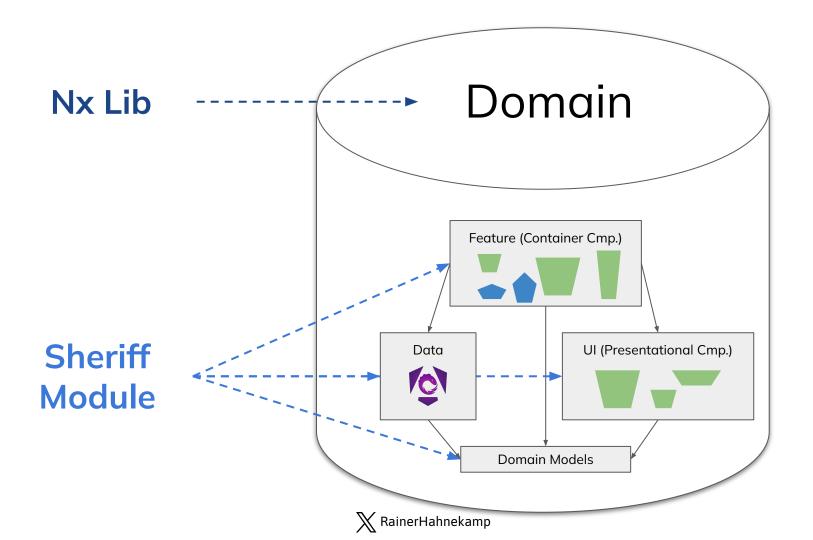
Diverging from the Angular CLI

✓ Must-Have for certain application size

Small Modules unfit as Libraries

Additional Layer

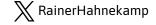
Not that stable as Angular CLI



Application Evolution

- 1. Angular CLI or NX Standalone with Sheriff
- 2. Nx with Domain Libs (and Sheriff)
- 3. Nx with build-optimized Libs (and Sheriff)

The Problem with the Barrel File...



Thanks

